SERVICE MANUAL

VTR 1000

VIDEO TAPE RECORDER

VHS
PAL

Only cassette marked VHS can be used with this recorder.

FIDELITY

SPECIFICATION

Television system	PAL standard color(system 1)& CCIR monochrome signals 625 lines
Recording system	Rotary two-head helical scan system
Format	VHS PAL Standard
Tape width	12.7 mm
Tape speed	23.39 mm/sec.
Operation Temperature	5°C to 40°C
Recording time	240 minutes with E-240 cassette
Tape loading system	Automatic loading
Tuner channel selection	Soft touch, 8 channels
Tuner channels	UHF: #21—#69
RF converter output	UHF channels 36(30—39 adjustable)
Time indication	AM/PM 12-hour system
Timer	Weekly programmable(one program with separate time indication for start and end time)
Tape counter	Separate 4-digit electronic display
Auto rewind system	Activated at end of tape when function switch is in "ON" position
Terminals	
Aerial input	DIN(socket)
RF output	DIN(plug)
Video input/output	RCA connector
Audio input/output	RCA connector
Camera remote pause	2.5 mm jack
Remote	3.5 mm jack

Electrical Specifications	
Video output level	1 Vp-p
Video output impedance	75 ohms
Audio output level	−6 dBm
Audio output impedance	600 ohms
Video input level	0.5 — 2.0 Vp-p
Video input impedance	75 ohms
Audio input level	−20 dBm
Audio input impedance	50 kohms
Video S/N ratio	43 dB
Audio S/N ratio	42 dB
Audio bandwidth	50 Hz — 10 kHz
Horizontal Resolution	Colour 240 lines
Other specifications	
Power requirement	240 V, 50 Hz
Power consumption	57 Watts
Dimensions	480mm(W)×130mm(H)I) ×340mm(D)
Weight	10.Kg(Approximate)

Because its products are subject to continuous improvement, Fidelity Radio PLC reserves the right to modify product designs and specifications without notice and without incurring any obligation.

PARTS LIST

PRODUCT SAFETY NOTICE

The components designated by a symbol(⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced,use only the part designated in the Parts List
Do not deviate from the resistance,wattage and voltage ratings shown.

ACCESSORIES

Ref No	Parts No	Description
	143-6-2704-03800	FAN BAG ASSY(Plastic Bag)
	4-2414-00070	CASSETTE TAPE
	4-2394-00030	CONNECTOR CABLE
	143-6-2704-03900	FAN BAG ASSY(Plastic Bag)
	143-6-2714-00400	ENVELOPE
	143-6-4114-02700	INSTRUCTION MANUAL
	143-6-4514-01100	WARRANTY CARD
	143-6-4124-01000	INSTRUCTION CARD

PACKING MATERIALS

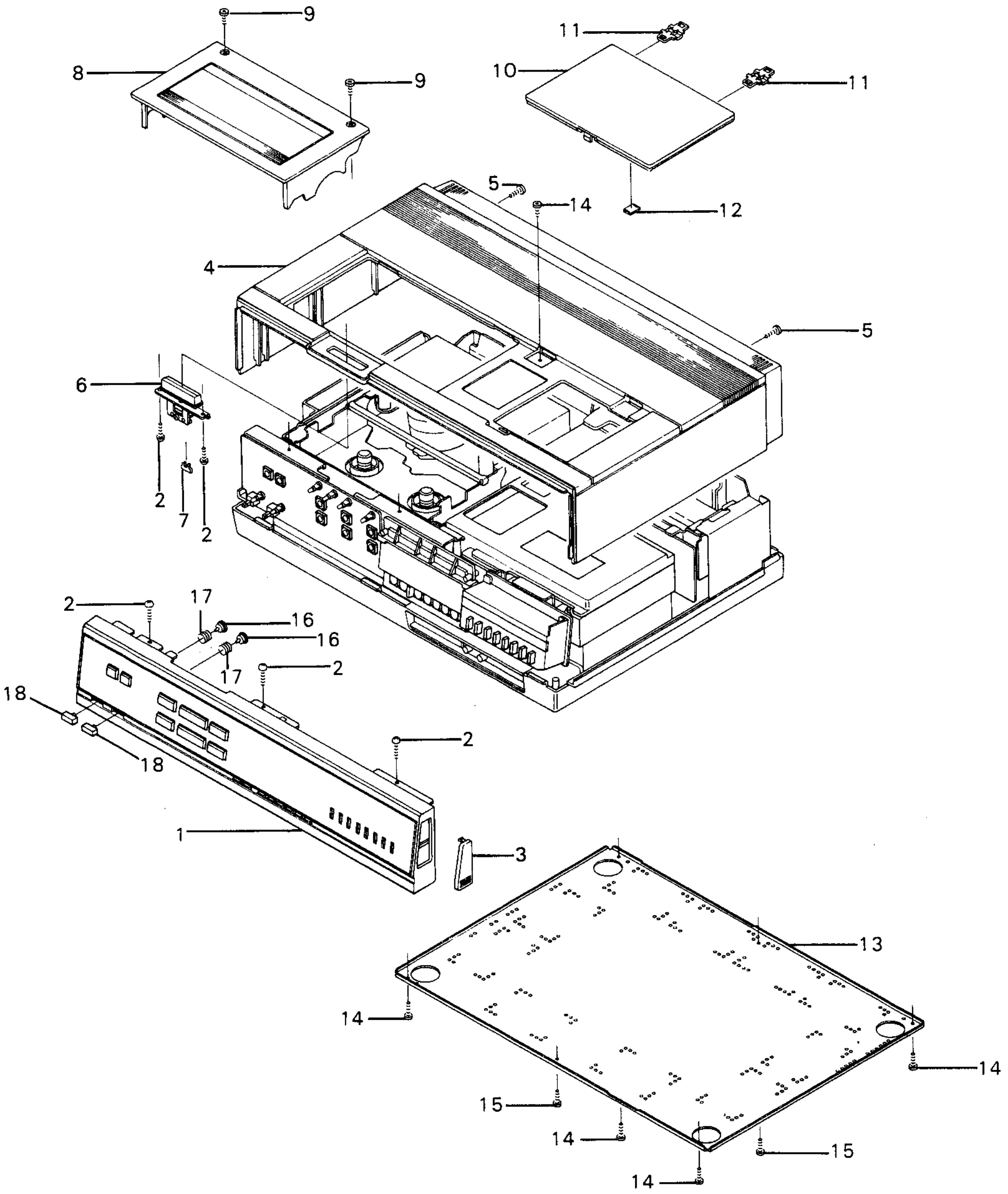
Ref No	Parts No	Description
	143-6-1424-00119	IND.CORR CARTON-HV01-U
	143-6-1464-00100	ACCESSORY CASE-HV01
	143-6-2514-00100	IND.POLY COVER-HV01
	143-6-3114-00100	TOP INNER CUSHION-HV01
	143-6-3114-00200	BOT INNER CUSHION-HV01
	143-6-3234-00100	PROTECTIVE SHEET-HV01
	143-6-3234-00200	PROTECTIVE SHEET-HV01-B

NOTE: Parts order must contain Model Number,Part number and Description.

CABINET PARTS (1)

Ref No	Parts No	Description
1	143-0-1104-00207	Cabinet,Front Assy-HV11
2	103-3-1903-01011	Screw,Brazier Hd Tapping +M3X10
3	143-2-1454-00404	Door,Channel Indicator HV04-A4
4	143-2-1204-00110	Cabinet Top-A4
	143-2-1904-00120	Name Plate-FD1000
	143-2-1954-00203	Label Preset-D
5	118-3-1704-01018	Screw,Bind Hd Tapping S-Tite +M3X6
6	143-0-1704-01400	Button,Eject Assy-HV11
7	143-2-7304-03200	Slide Plate,Eject
8	143-2-1404-00108	Lid Cassette-A5
	143-2-1604-00204	Decorative Plate Lid-E
9	143-2-5804-00800	Decorative,Screw M3X7
10	143-2-1454-00105	Lid Preset-A5
	143-2-1954-00300	Label AFT-A
	143-2-1954-00400	Label Timer-A
11	143-2-7404-00100	Hinge-A
12	143-2-6104-00900	Slide,AFT Switch
13	143-2-1354-00100	Bottom Cover
14	103-3-1703-01018	Screw,Bind Hd Tapping +M3X10
15	103-3-1703-00618	Screw,Bind Hd Tapping +M3X6
16	143-2-1704-01700	Flange Button Power
17	143-2-6704-01500	Spring,Button Power-B
18	143-2-1704-00802	Button,Power-HV04-A2

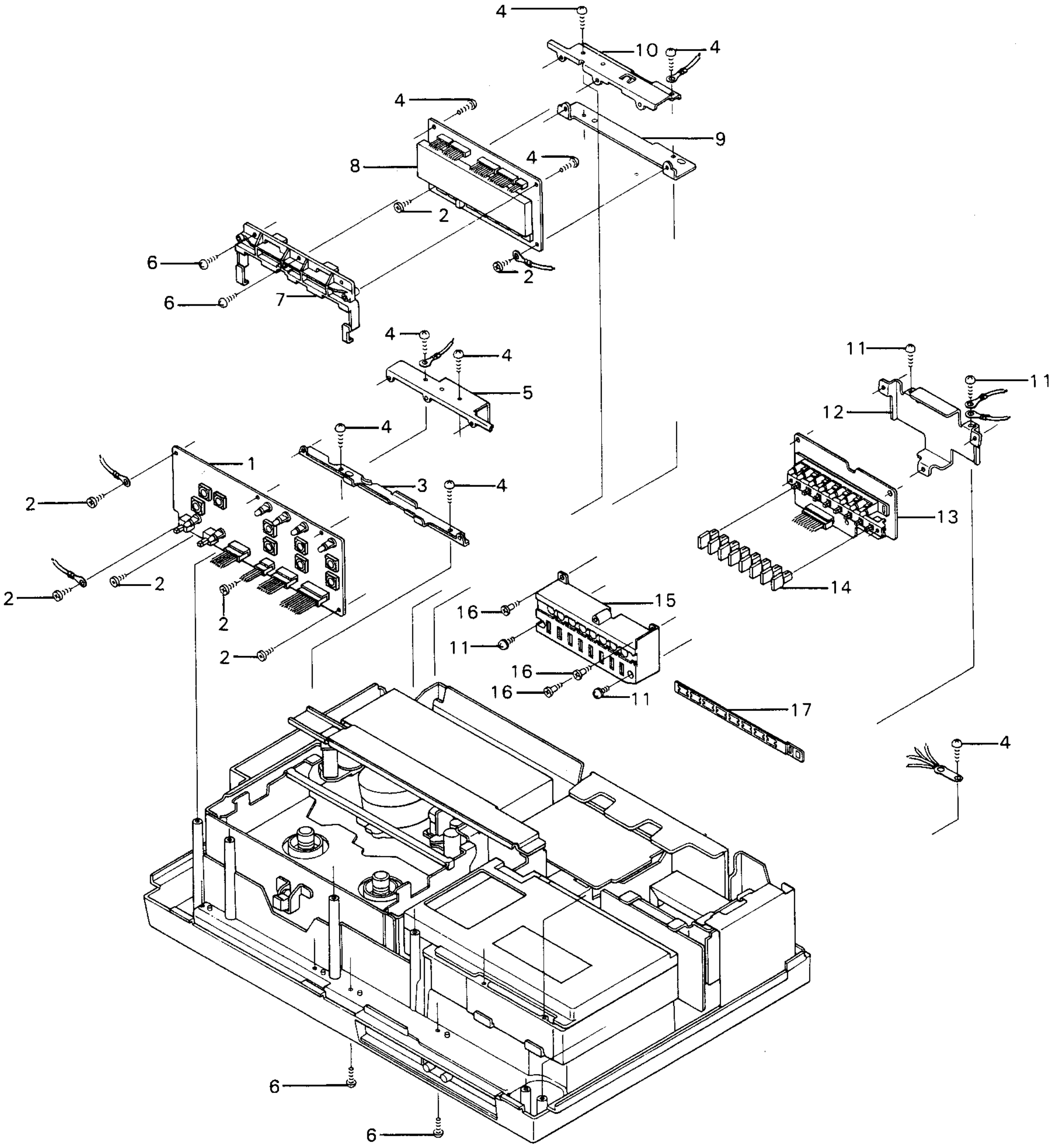
NOTE: Parts order must contain Model Number, Part Number and Description.



CABINET PARTS (2)

Ref No	Parts No	Description
1	0-4014-00400	Key Function PC Assy
2	118-3-1703-00611	Screw,Bind Hd Tapping S-Tite +M3X6
3	143-2-3404-02400	Brkt,Function PB-A
4	103-3-1903-01011	Screw,Brazier Hd Tapping +M3X10
5	143-2-3404-04100	Brkt,Function PB-HV04-L
6	118-3-1703-00811	Screw,Bind Hd Tapping S-Tite +M3X8
7	143-2-3304-01200	Base,Fluorescent Display Mounting-C
8	0-4014-00030	Timer A PC Assy
9	143-2-3404-02200	Brkt,Fluorescent Display PB
10	143-2-3404-04200	Brkt,Function PB-HV04-R
11	131-3-1303-00611	Screw,Pan Hd Machine Combination Spring Washer +M3X6
12	143-2-3404-02100	Brkt,Channel Selector
13	0-4014-00500	Channel Selector PC Assy
14	143-2-1704-04400	Button,Channel Selector-HV11
15	143-2-3304-00800	Box,Channel Selector-D
16	143-2-5804-00900	Screw,Bind Hd Tapping S-Tite+M3X10
17	143-0-1554-00700	Channel Indicator Assy-D

NOTE: Parts order must contain Model Number, Part Number and Description.

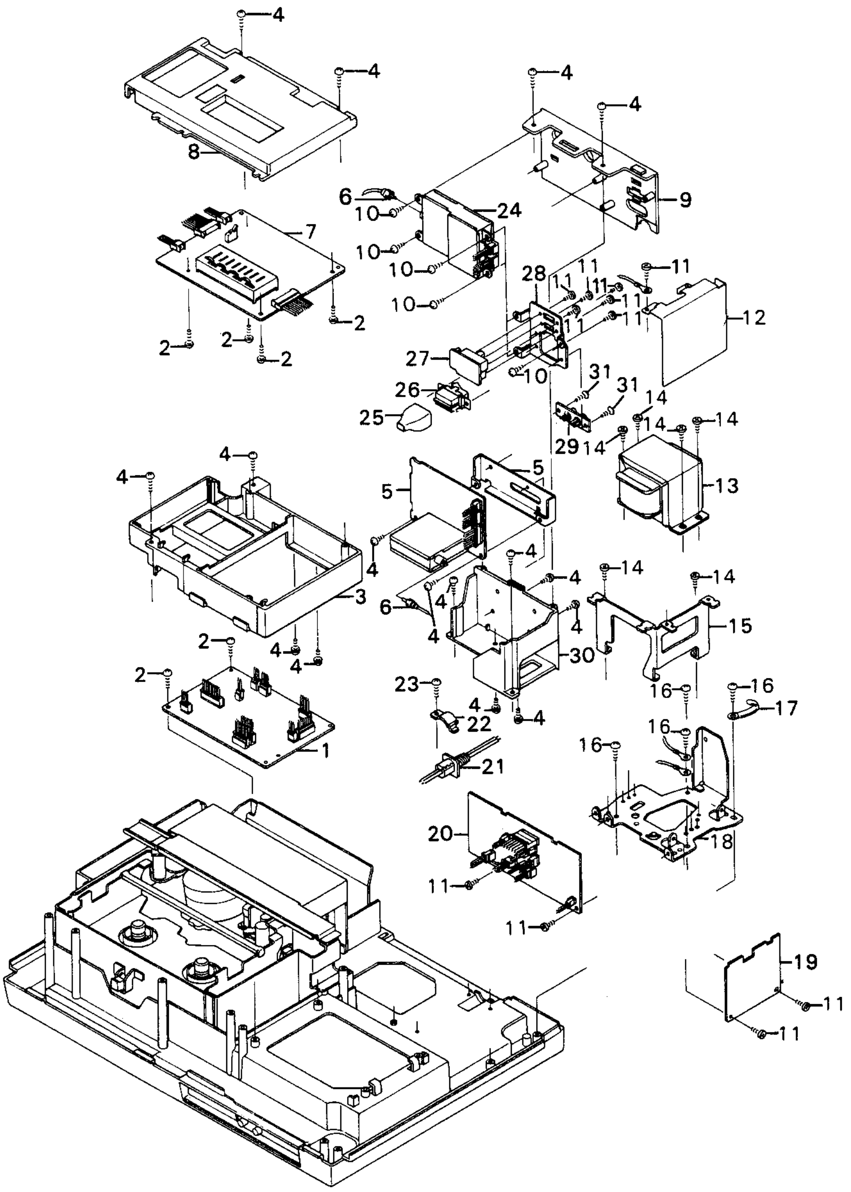


CABINET PARTS (3)

Ref No	Part No	Description
1	0-4014-00041	Timer B PC Assy
2	103-3-1903-01011	Screw,Brazier Hd Tapping +M3X10
3	143-2-3304-01000	Base Channel Unit Mounting
4	103-3-1903-01211	Screw,Brazier Hd Tapping +M3X12
5	4-1154-00030	Tuner IF Unit
6	0-4034-00020	Wire Shield Assy
7	0-4014-00530	Preset PC Assy
8	143-2-3304-01100	Box,Preset-HV07
9	143-2-1204-00200	Rear Terminal Board-HV04
10	103-3-1903-00811	Screw,Brazier Hd Tapping +M3X8
11	116-3-1703-00611	Screw,Bind Hd Tapping B-Tite +M3X6
12	143-2-3604-00400	Insulator Plate-B
13	4-2514-00090	Power Transformer
14	118-3-1703-00611	Screw,Bind Hd Tapping S-Tite +M3X6
15	143-2-3404-03800	Brkt,Power PB-HV04
16	103-3-1904-01211	Screw,Brazier Hd Tapping +M4X12

Ref No	Part No	Description
17	143-2-5854-00400	Wire Clamp
18	143-2-3404-03900	Brkt,Power Unit-HV04
19	0-4014-00430	Power B, PC Assy
20	0-4014-00420	Power, A, PC Assy
21	0-4054-00050	Power Cord Assy-UK
22	143-2-3404-01900	Brkt,AC Cord
23	103-3-1904-01011	Screw,Brazier Hd Tapping +M4X10
24	4-1164-00060	RF Converter
25	143-2-3604-00500	Insulator SW Cover
26	4-2314-00120	See Saw Switch
27	4-2264-00510	Test Switch PC Board
28	143-2-3404-04000	Brkt,Rear Terminal-HV04
29	4-2354-00240	2P RCA Pin Jack
30	143-2-3304-00900	Base Tuner Mounting
31	116-3-1203-00811	Screw,Flat Hd Tapping B-Tite +M3X8

NOTE: Parts order must contain Model Number, Part Number and Description.

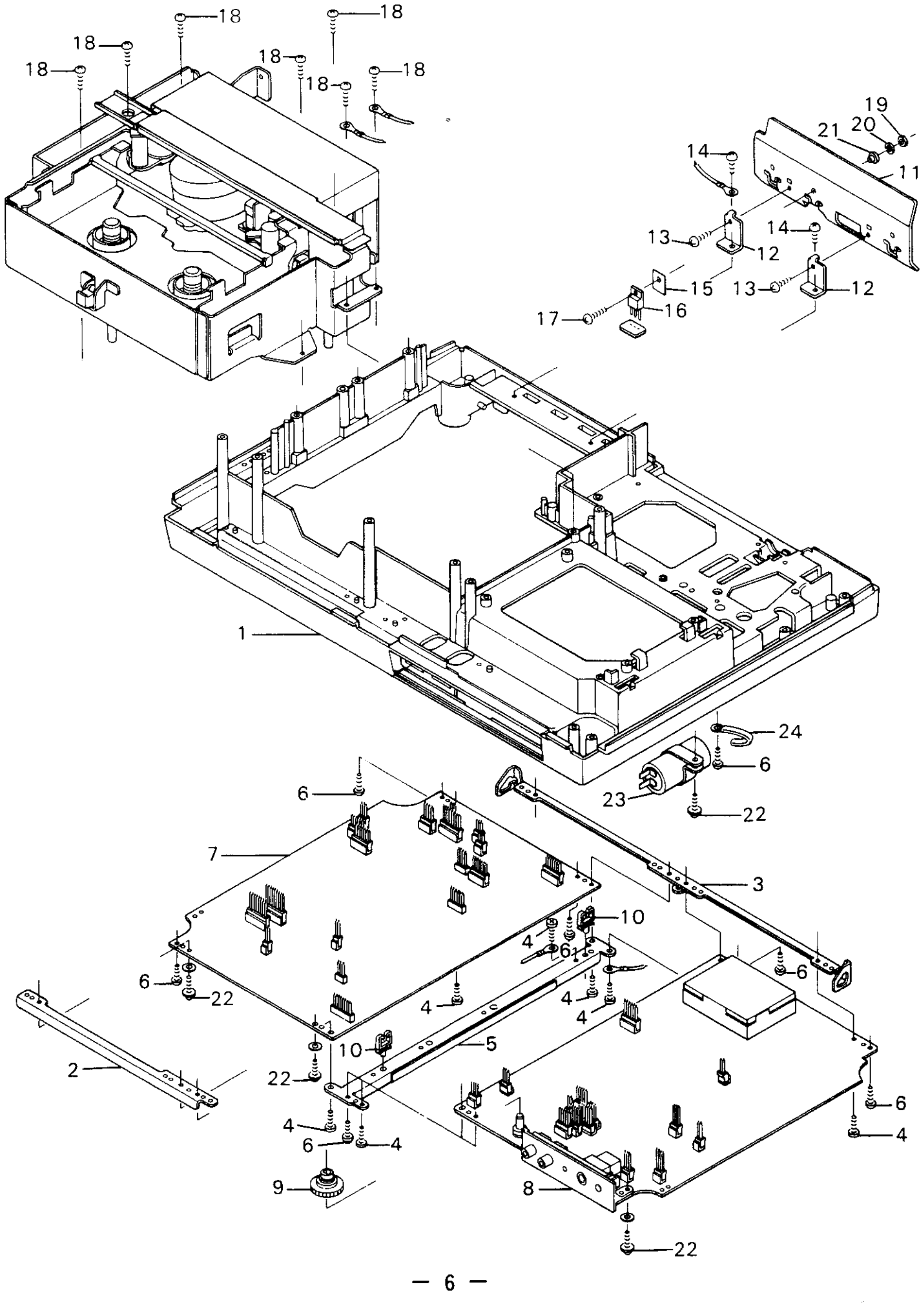


CABINET PARTS (4)

Ref No	Parts No	Description
1	143-2-1304-00100	Cbinet Bottom-V
	143-2-1604-00106	Decorative Plate Term-F
	143-2-1854-00100	Foot Felt 21X3
2	143-2-3804-00100	Beam PB,Front
3	143-2-3804-00300	Beam PB,Rear
4	118-3-1703-00811	Screw,Bind Hd Tapping S-Tite +M3X8
5	143-2-3804-00200	Beam PB,Center
6	103-3-1903-01218	Screw,Brazier Hd Tapping +M3X12
7	0-4014-00390	System Control Servo,PC Assy
8	0-4014-00381	Video Audio, PC Assy
9	143-2-1704-00300	Knob,Tracking
10	143-2-5854-00600	Wire Clip,N161
11	143-2-7904-00100	Rad Plate System Control

Ref No	Parts No	Description
12	143-2-3404-02300	Brkt,Rad Mounting
13	103-3-1903-01011	Screw,Brazier Hd Tapping +M3X10
14	103-3-1903-00811	Screw,Brazier Hd Tapping +M3X8
15	201-2-5014-00010	Transistor Insulator
16	TG2SD613(E)	Power Transistor(Q901)
17	101-3-1303-01011	Screw,Pan Hd Machine +M3X10
18	103-3-1904-01211	Screw,Brazier Hd Tapping +M4X12
19	106-3-1103-00111	Nut,Hex,M3
20	110-3-2103-00011	Small Washer M3
21	201-2-5024-00010	Transistor Bushing
22	143-2-5804-01208	Screw,Pan Hd Tapping B-Tite +M3X8
23	C1EDFM004T	Elect,10000μF 25V M
24	143-2-5854-00400	Wire Clamp

NOTE: Parts order must contain Model Number,Part Number and Description.

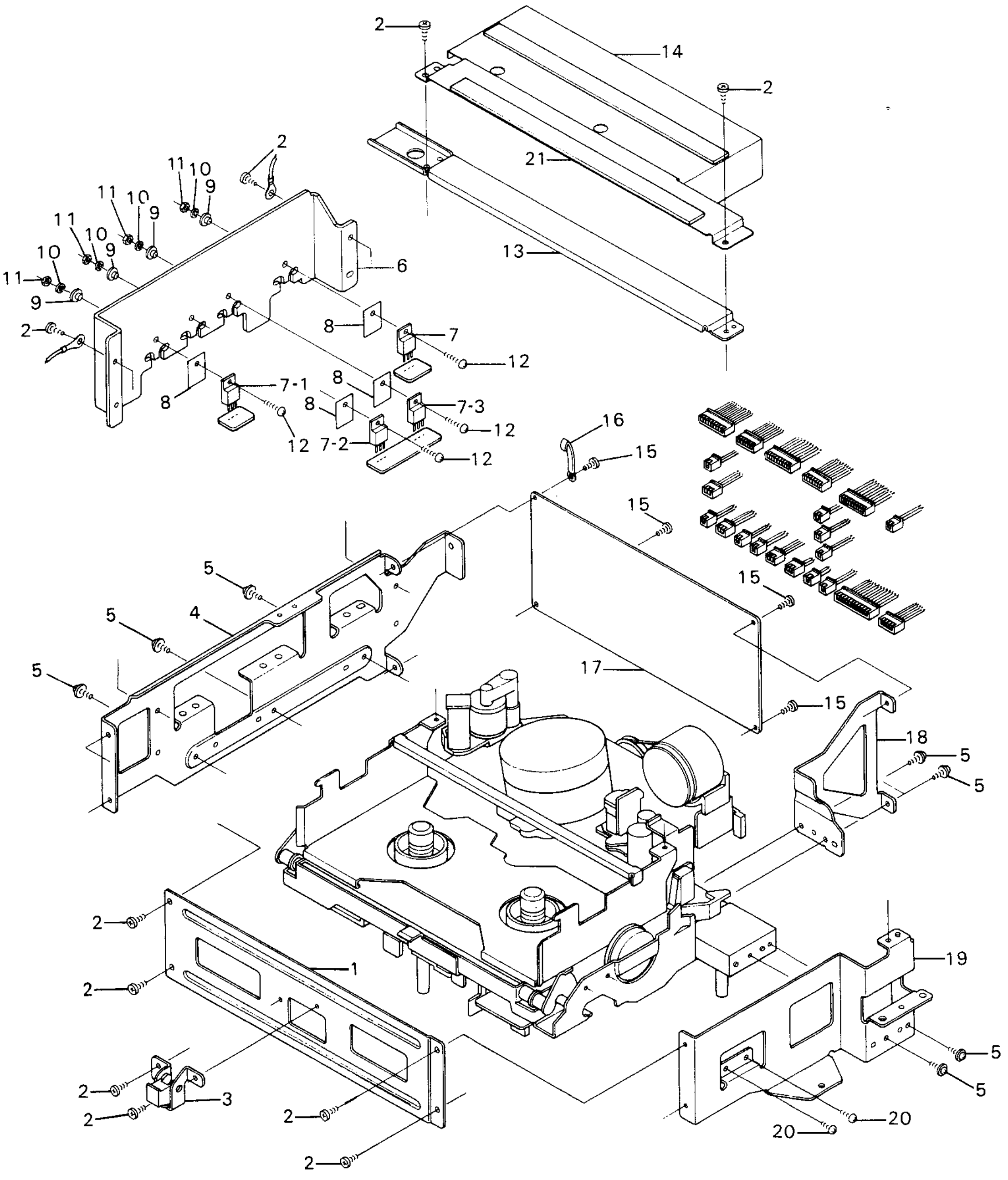


CABINET PARTS (5)

Ref No	Parts No	Description
1	143-2-3404-02700	Brkt,Chassis Front
2	118-3-1703-00611	Screw,Bind Hd Tapping S-Tite +M3X6
3	143-2-7304-03000	Lever
	143-2-7304-03100	Brkt,Lever
	143-2-6704-00300	Spring Lever
4	143-2-3404-02900	Brkt,Chassis,Left
5	143-2-5804-01208	Screw,Pan Hd Tapping B-Tite +M3X8
6	143-2-7904-00500	Rad Plate,SC-B
7	TG2SD313(E)or(F)	Power Transistor(Q009)
7-1	TG2SD313(E)or(F)	Power Transistor(Q891)
7-2	TG2SD313(E)or(F)	Power Transistor(Q893)
7-3	TG2SD313(E)or(F)	Power Transistor(Q894)
8	201-2-5014-00010	Transistor Insulator
9	201-2-5024-00010	Transistor Bushing

Ref No	Parts No	Description
10	110-3-2103-00011	Small Washer M3
11	106-3-1103-00111	Nut,Hex,M3
12	101-3-1303-01011	Screw,Pan Hd Machine +M3X10
13	143-2-3804-00400	Beam,Chassis
14	143-2-3504-00400	Shield Plate
15	103-3-1903-01211	Screw,Brazier Hd Tapping +M3X10
16	143-2-5854-00400	Wire Clamp
17	0-4014-00410	System Control Drive PC Assy
18	143-2-3404-03000	Brkt,Chassis Rear
19	143-2-3404-02800	Brkt,Chassis Right
20	131-3-1303-00611	Screw,Pan Hd Machine Combination Spring Washer +M3X6
21	143-2-6504-00100	Pad-A

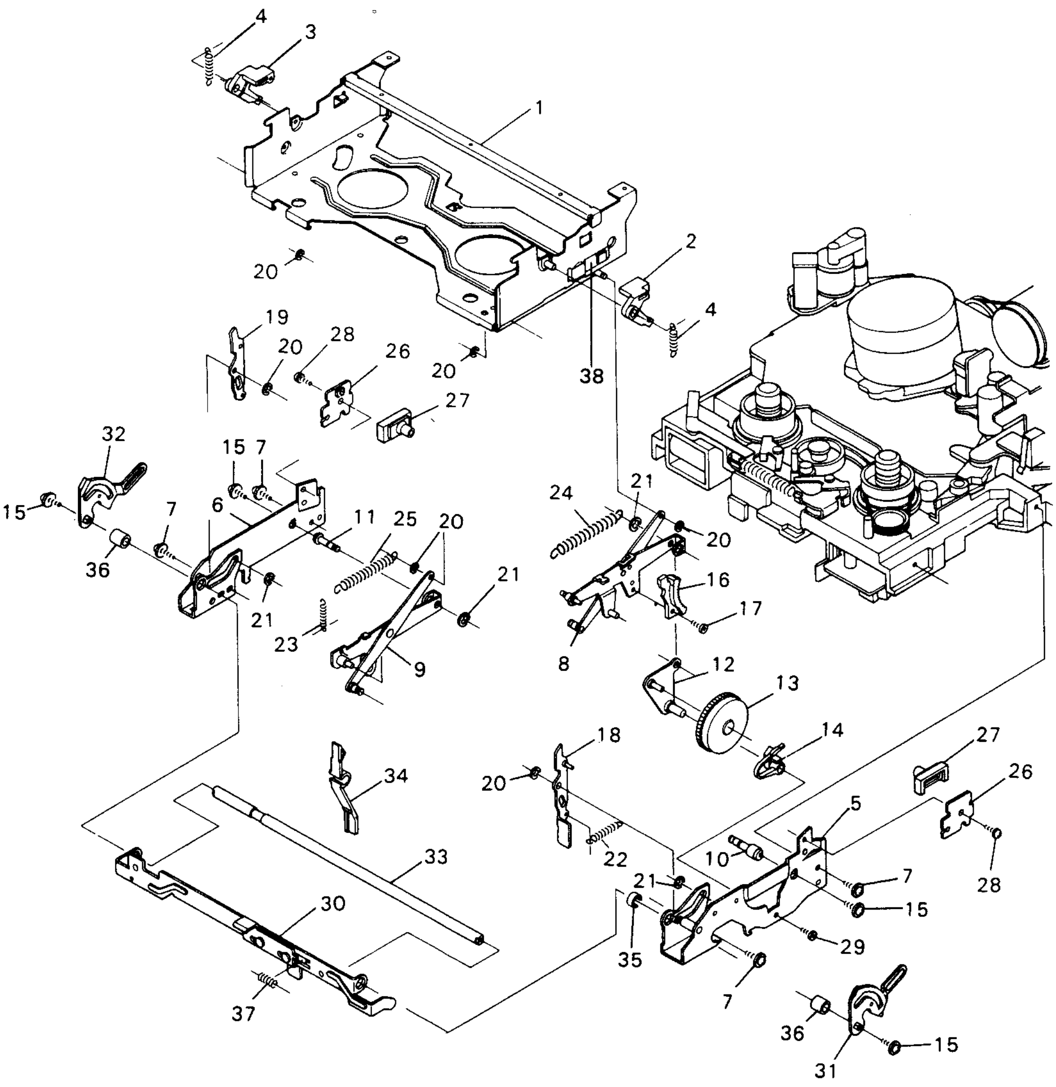
NOTE: Parts order must contain Model Number,Part Number and Description.



CHASSIS PARTS (1)

Ref No	Part No	Description
1	143-0-7304-00100	Stage Assy(Cassette Holder)
2	143-2-7304-00500	Clamp,Cassette Hold Down,Supply Reel Side
3	143-2-7304-00600	Clamp,Cassette Hold Down,Take Up Reel Side
4	143-2-6604-00300	Spring Cassette Hold Down Clamp
5	143-0-7304-00700	Brkt,Eject Assy,Take Up Reel Side
6	143-0-7304-00600	Brkt,Eject Assy,Supply Reel Side
7	143-2-5804-01208	Screw,Pan Hd Tapping B-Tite +M3×8
8	143-0-7304-00300	Link Eject Assy,Take Up Reel Side
9	143-0-7304-00200	Link,Eject Assy,Supply Reel Side
10	143-2-5404-03100	Pivot,Link,Take Up Reel Side
11	143-2-5404-03000	Pivot,Link,Supply Reel Side
12	143-0-7304-01000	Holder,Damper Assy
13	143-0-7304-01100	Oil Damper Assy
14	143-2-7304-02500	Arm,Clutch
15	143-2-5804-01305	Screw,Pan Hd Machine +M3×5
16	143-2-7304-02400	Gear Arm
17	101-3-1302-60411	Screw,Pan Hd Machine +M2.6×4
18	143-0-7304-00500	Plate Lock,Take Up Assy
19	143-0-7304-00800	Plate Lock,Supply Assy
20	112-3-1302-00012	Ring,E-Type,M2
21	112-3-1303-00012	Ring,E-Type,M3
22	143-2-6604-00200	Spring,Plate Lock
23	143-2-6604-01500	Spring,Stage
24	143-2-6604-00100	Spring,Eject Link
25	143-2-6604-01600	Spring,Eject Link,B
26	0-4014-00141	End Sensor,PC Assy
27	143-2-3454-00100	Holder Lamp Eject
28	101-3-1302-60511	Screw,Pan Hd Machine +M2.6×5
29	101-3-1702-60511	Screw,Bind Hd Machine +M2.6×5
30	143-0-7304-00400	Lever,Eject Assy
31	143-2-7304-01400	Plate,Guide,Take Up Reel Side
32	143-2-7304-01300	Plate,Guide Supply Reel Side
33	143-2-7304-01200	Rod,Eject
34	143-2-7304-00800	Lever,Interlock
35	143-2-7304-02100	Spacer,Hinge
36	143-2-7304-02000	Spacer Rod
37	143-2-6704-00400	Spring,Slider
38	143-0-7304-00900	Fix Cassette Assy

NOTE: Parts order must contain Model Number, Part Number and Description.

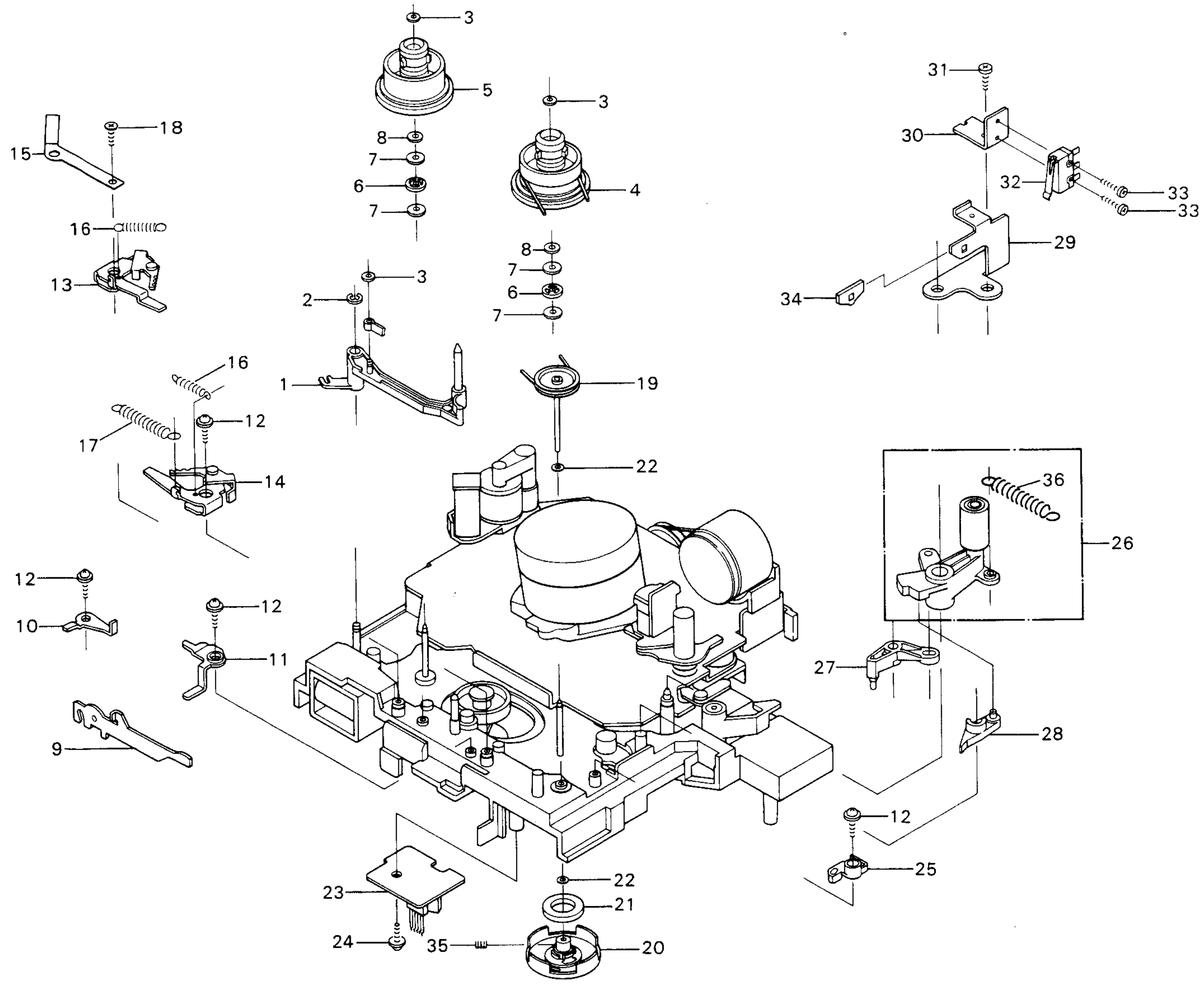


CHASSIS PARTS (2)

Ref No	Part No	Description
1	143-0-5104-00100	Arm,Tension Assy
2	112-3-1303-00040	Ring,E-Type,M3
3	143-2-6304-00100	Washer,Reel Fix
4	143-0-4104-00200	Reel,Take Up Assy
5	143-0-4104-00100	Reel,Supply Assy
6	143-0-5304-00100	Bearring,Thrust Assy
7	143-2-6204-00100	Washer,Thrust
8	143-2-6304-00200	Washer 7X3.2X0.5
9	143-2-5104-03500	Plate,Plunger
10	143-2-5104-02800	Lever,Brake Control
11	143-2-5104-01300	Lever,Internal Lock,Eject
12	143-2-5804-01206	Screw,Pan Hd Tapping B-Tite +M3X6
13	143-0-5204-00200	Brake Assy,Supply
14	143-0-5204-00300	Brake Assy,Take Up
15	143-2-6904-00100	Spring,Cassette Up
16	143-2-6604-01100	Spring,Brake Shoe
17	143-2-6604-01300	Spring Tension Arm
18	116-3-1203-01011	Screw,Flat Hd Tapping B-Tite +M3X10

Ref No	Part No	Description
19	143-0-4304-00100	Pully,Counter Assy
20	143-0-7104-00100	Holder,Magnet Assy
21	4-2604-00030	Rotor Magnet
22	143-2-6304-00300	Washer 5X2.1X0.25
23	0-4014-00090	Counter PC Assy
24	143-2-5804-01208	Screw,Pan Hd Tapping B-Tite +M3X8
25	143-2-5104-01400	Lever,Latch Load
26	143-0-4604-00100	Pinch Roller Assy
27	143-2-5104-01900	Lever Loading
28	143-2-5104-01200	Lever Contact Idler
29	143-2-3404-03100	Lid Opener
30	143-2-3404-03300	Brkt,Stage Switch
31	116-3-1703-00811	Screw,Bind Hd Tapping B-Tite +M3X8
32	0-4064-00031	Micro Switch
33	101-3-1702-30811	Screw,Bind Hd Machine +M2X8
34	143-2-6904-00500	Spring Blade
35	143-2-5804-00500	Hex Socket Hd M3X4
36	143-2-6604-00700	Spring Pinch Roller

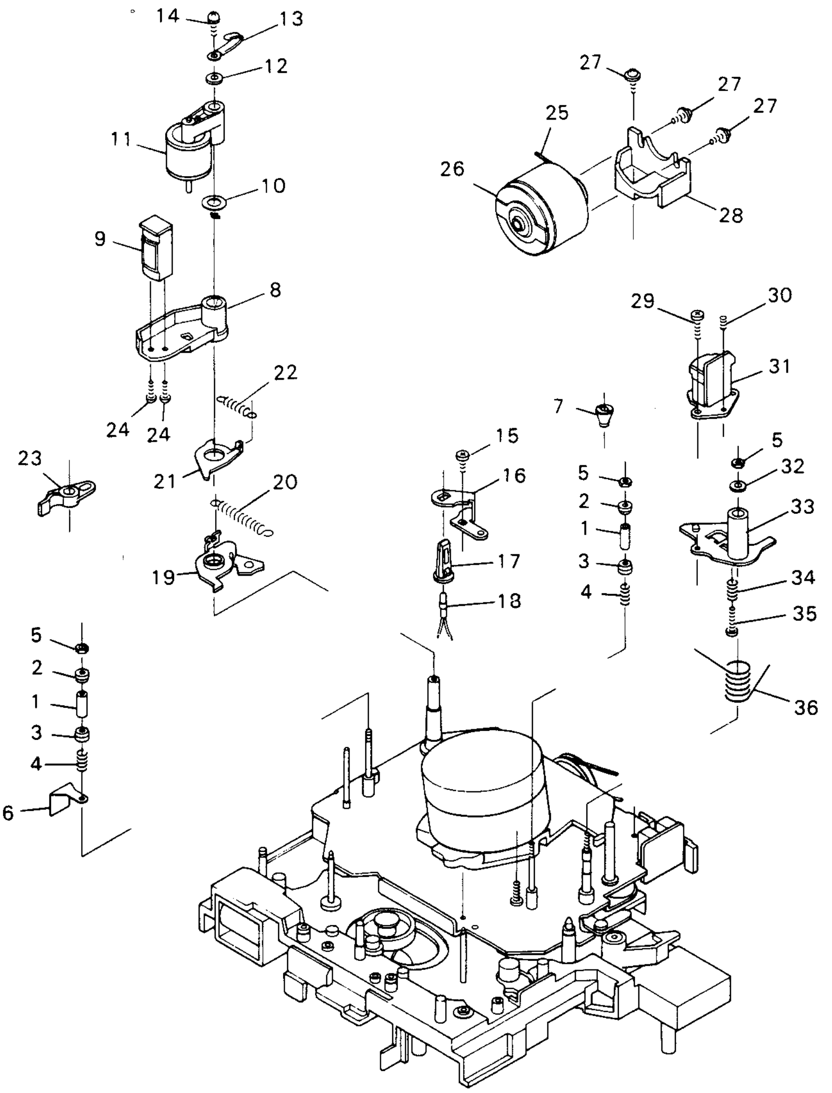
NOTE: Parts order must contain Model Number, Part Number and Description.



CHASSIS PARTS (3)

Ref No	Part No	Description
1	143-2-7704-00200	Guide Tape
2	143-2-7704-00400	Flange,Guide,Upper
3	143-2-7704-00300	Flange,Guide,Lower
4	1432-6704-00500	Spring,Guide Adjust
5	106-3-1103-00011	Nut Hex M3
6	143-2-3404-01300	Plate,Guard
7	143-2-5704-00100	Nut,Tangential Adjust
8	143-2-5104-03300	Brkt,Erase Hd
9	4-2424-00040	Full Erase Hd
10	143-2-6304-00900	Washer 12×8.2×0.13
11	143-0-4804-00200	Impedance Roll Assy
12	143-2-6204-00500	Washer 3.2×8×1
13	143-2-5854-00300	Wire Clamp
14	131-3-1303-00611	Screw,Pan Hd Machine Combination Spring Washer M3×6
15	101-3-1703-00511	Screw,Bind Hd Machine +M3×5
16	143-2-3404-00800	Brkt,Lamp Holder
17	143-2-3404-00900	Holder,Lamp
18	4-6124-00010	Lamp
19	143-2-5104-01100	Lever,Control,Erase Hd
20	143-2-6604-01000	Spring Control Lever Erase Hd
21	143-2-5104-02000	Lever,Push,Erase Hd
22	143-2-6604-00900	Spring,Push Impedance
23	143-2-5104-02200	Lever,Hd Release
24	136-3-1302-00511	Screw,Pan Hd Machine Combination Spring & Plain Washer M2×5
25	143-2-7504-00100	Belt Loading
26	4-5254-00041	Loading Motor
27	143-2-5804-01306	Screw,Pan Hd Machine +M3×6
28	143-2-3404-00400	Base,Motor
29	101-3-1303-00811	Screw,Pan Hd Machine +M3.0×8
30	115-3-3403-00681	Screw,Cone Type,Hex M3×6
31	4-2424-00070	Audio Control Erase Hd
32	143-2-6204-00500	Washer 3.2×8×1
33	143-0-5104-00800	Base,Hd Assy
34	143-2-6704-00600	Spring Azimuth
35	101-3-1703-01211	Screw,Bind Hd Machine +M3×12
36	143-2-6704-00700	Spring,Tangential Adjust

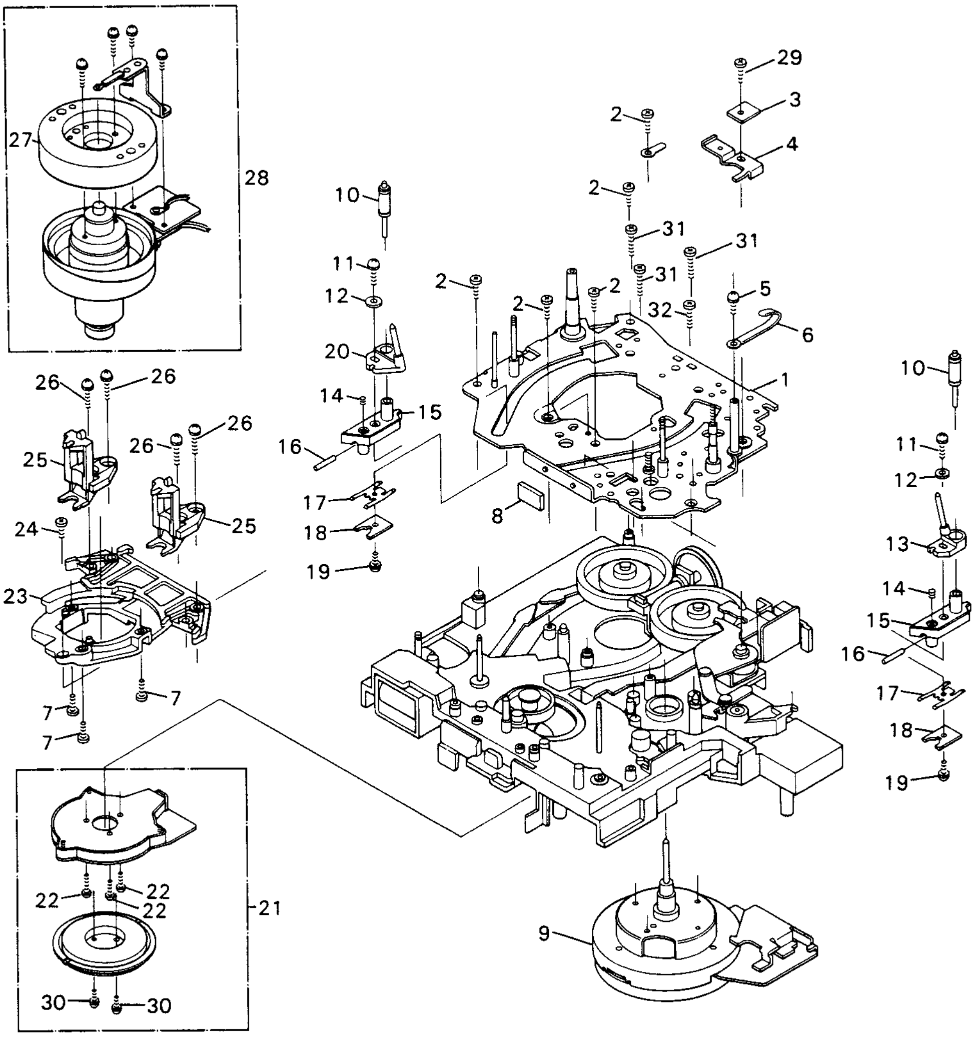
NOTE: Parts order must contain Model Number, Part Number and Description.



CHASSIS PARTS (4)

Ref No	Part No	Description
1	143-0-3204-00100	Base,Loading Assy
2	116-3-1703-01011	Screw,Bind Hd Tapping B-Tite+M3X10
3	4-2214-00020	Dew Sensor
4	143-2-3404-03600	Brkt,Dew Sensor
5	131-3-1303-00611	Screw,Pan Hd Machine Combination Spring Washer +M3X6
6	143-2-5854-00400	Wire Clamp
7	101-3-1703-00811	Screw,Bind Hd Machine +M3X8
8	143-2-6404-00200	Cushion
9	4-5254-00020	Capstan Motor
10	143-0-7704-00100	Guide Roller Assy
11	131-3-1303-00811	Screw,Pan Hd Machine Combination Spring +M3X8
12	143-2-6204-00500	Washer 3.2X8X1
13	143-0-5104-00700	Angle Pole External Assy
14	115-3-3403-00686	Screw,Cone Point Hex,Socket M3X6
15	143-0-5104-00500	Base Roller Assy
16	143-2-5504-00300	Pin Lock
17	143-2-6904-00200	Guide Plate Spring
18	143-2-3404-01200	Guide Plate Roller
19	131-3-1303-00411	Screw,Pan Hd Machine Combination Spring +M3X4
20	143-0-5104-00600	Angle Pole Internal Assy
21	4-5254-00010	Cylinder Motor
22	143-2-5804-01000	Screw,M2.3X10
23	143-0-3404-00200	Base,Cylinder Assy
24	101-3-1703-00611	Screw,Bind Hd Machine +M3X6
25	143-2-3404-01500	Pole Catcher
26	136-3-1303-01211	Screw,Pan Hd Combination Spring & Plain Washer +M3X12
27	143-0-4704-01000	Cylinder,Upper Assy
28	143-0-4704-00900	Cylinder Complete
29	101-3-1702-60311	Screw,Bind Hd Machine +M2.6X3
30	143-2-5804-01100	Screw,Pan Hd Machine Combination Plain Washer M2.3X6
31	101-3-1703-01411	Screw,Bind Hd Machine M3X14
32	101-3-1203-01411	Screw,Plat Hd Machine M3X14

NOTE: Parts order must contain Model Number, Part Number and Description.

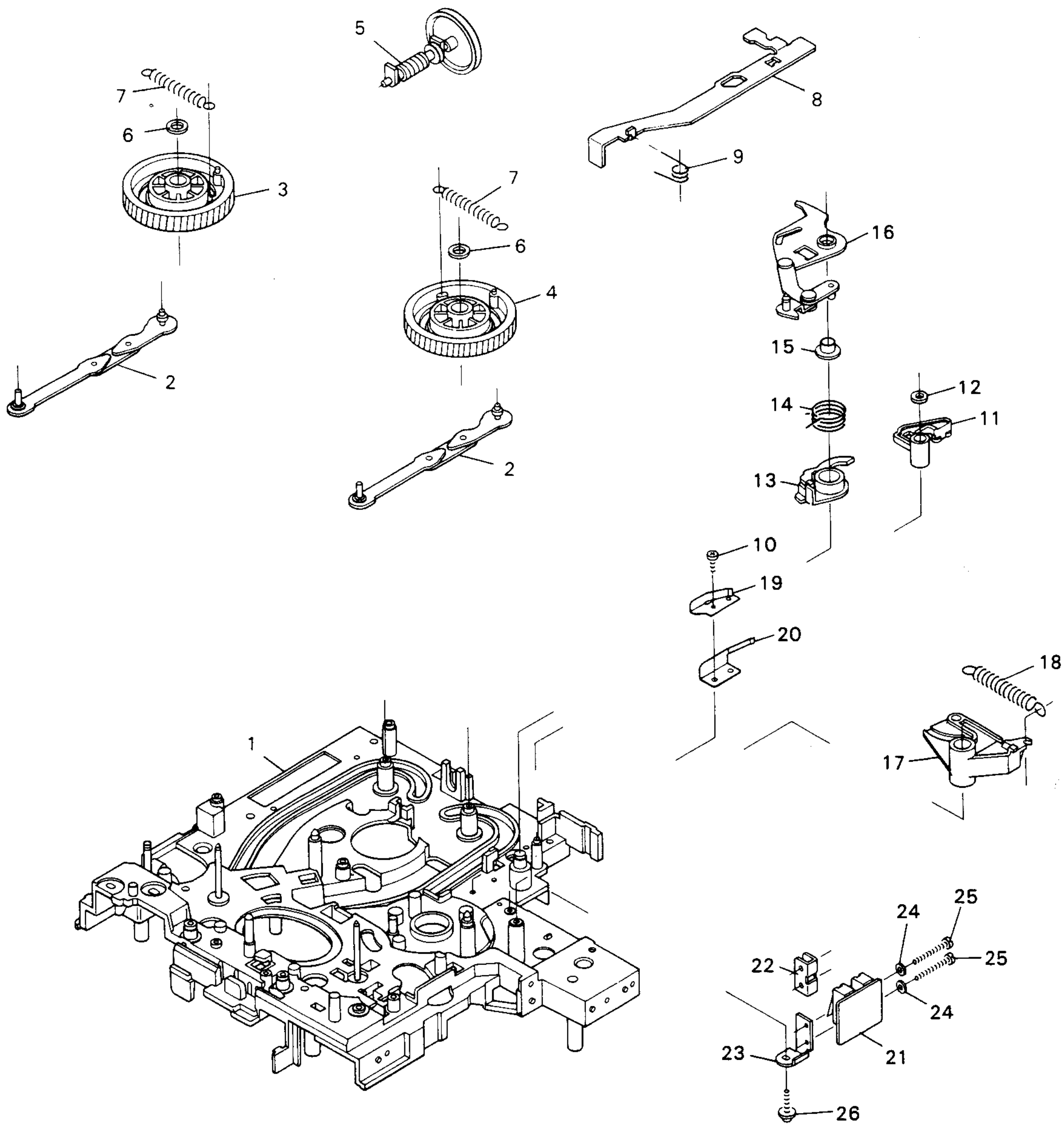


CHASSIS PARTS (5)

Ref No	Part No	Description
1	143-2-3104-00100	Chassis
2	143-0-5104-00300	Link,Loading Assy
3	143-0-4904-00200	Gear,Loading Internal Assy
4	143-0-4904-00100	Gear,Loading External Assy
5	143-0-4904-00300	Worm Gear Assy
6	143-2-6204-00300	Washer 5.3×10×1.4
7	143-2-6604-00600	Spring,Gear
8	143-2-5104-02600	Control Plate
9	143-2-6804-00300	Spring,Control Plate
10	116-3-1702-00511	Screw,Bind Hd Tapping B-Tite +M2×5
11	143-2-5104-00600	Arm,Timing SW
12	143-2-6204-00400	Washer 3.2×8×1.4
13	143-2-5104-04100	Cam,Timing SW

Ref No	Part No	Description
14	143-2-6804-00200	Spring,Timing SW
15	143-2-5404-01300	Pivot,Trigger Link
16	143-0-5104-00400	Trigger Link Assy
17	143-2-5104-00200	Pressure Plate
18	143-2-6604-00800	Spring,Pressure Plate
19	143-2-6904-00400	Actuator,SW
20	143-2-6904-00300	Actuator,Timing SW
21	0-4014-00150	Load/Unload PC Assy
22	143-2-3404-00600	Spacer,SW
23	143-2-3404-01400	Brkt,Timing SW
24	143-2-6204-00600	Washer 2.3×6×0.35
25	143-2-5804-00200	Screw,Timing SW
26	143-2-5804-01208	Screw,Pan Hd Tapping B-Tite+M3×0.8

NOTE: Parts order must contain Model Number, Part Number and Description.

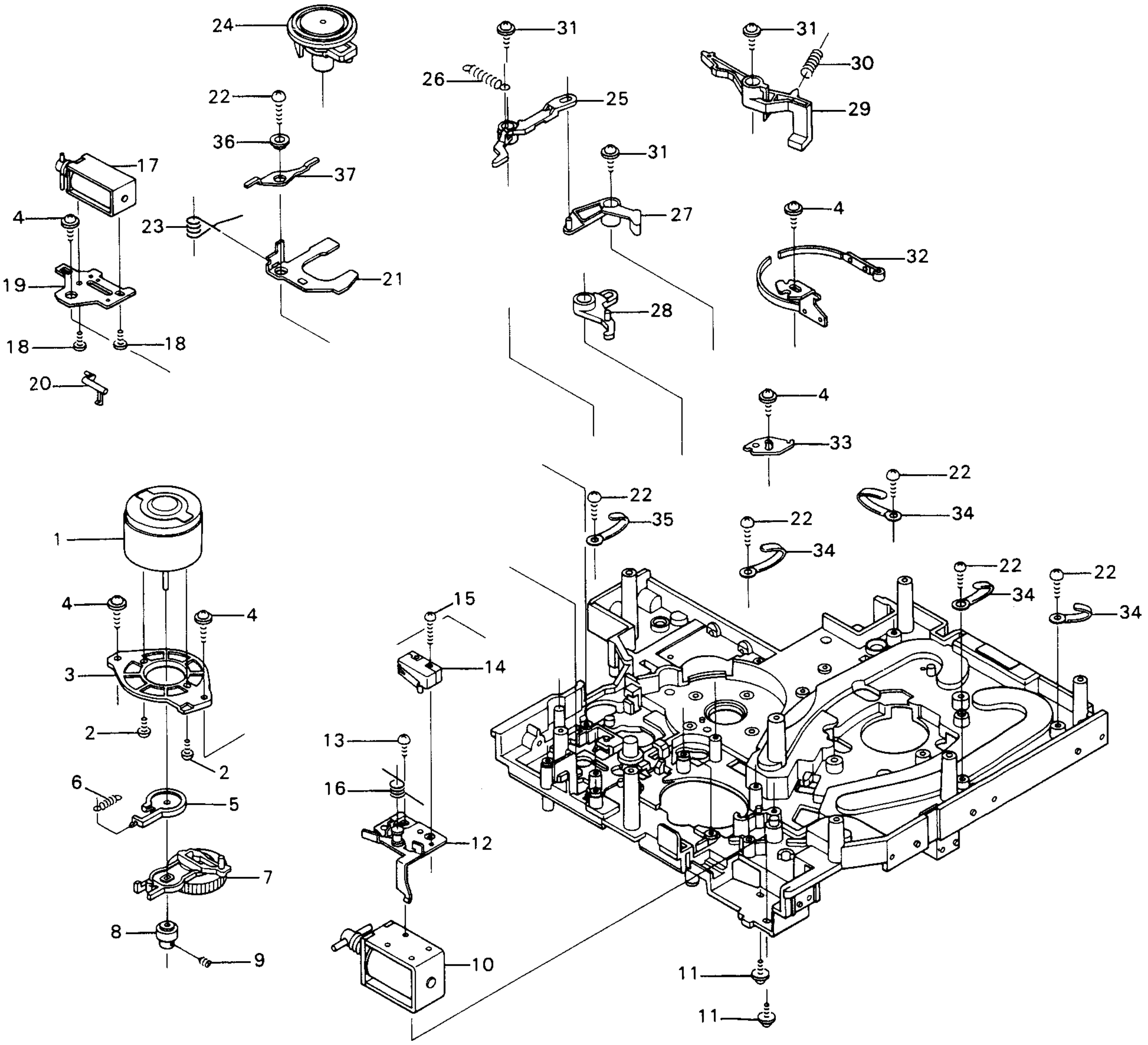


CHASSIS PARTS (6)

Ref No	Part No	Description
1	4-5254-00031	Reel Motor
2	101-3-1703-00511	Screw,Bind Hd Machine +M3X5
3	143-2-3404-00200	Brkt,Wind Motor
4	143-2-5804-01208	Screw,Pan Hd Tapping B-Tite +M3X8
5	143-2-5104-00800	Brkt,Winder
6	143-2-6604-00400	Spring,Winder Base
7	143-0-4204-00200	Winder Assy
8	143-0-4804-00100	Roller,Wind Assy
9	115-3-3503-00486	Screw,Cup Point Hex Socket M3X4
10	4-2644-00030	Main Plunger
11	143-2-5804-01305	Screw,Pan Hd Machine +M3X5
12	143-0-3404-00301	Base,Switch Assy
13	101-3-1703-00411	Screw,Bind Hd Tapping Machine+M3X4
14	4-2314-00060	Micro Switch Assy
15	101-3-1702-00811	Screw,Bind Hd Tapping Machine+M2X8
16	143-2-6804-00400	Spring,Interlock
17	4-2644-00020	Reel Plunger
18	101-3-1702-60311	Screw,Bind Hd Tapping Machine+M2.6X3
19	143-2-3404-00500	Base Plunger

Ref No	Part No	Description
20	143-2-5104-02900	Latch,Take Up Reel
21	143-2-3404-01100	Plate,Fix Take Up Idler
22	116-3-1703-00811	Screw Bind Hd Tapping B-Tite +M3X8
23	143-2-6804-00100	Spring,Idler
24	143-0-4204-00100	Idler,Take Up Assy
25	143-2-5104-00900	Lever,Connecting
26	143-2-6604-00500	Spring,Lever Connecting
27	143-2-5104-01600	Lever,Link Eject
28	143-2-5104-02100	Lever Release
29	143-2-5104-01000	Lever Connecting
30	143-2-6704-01300	Spring,Lever Connecting
31	143-2-5804-01206	Screw,Pan Hd Tapping B-Tite +M3X6
32	143-0-5204-00100	Band Brake Assy
33	143-2-3404-00100	Hook,Spring T Arm
34	143-2-5854-00400	Wire Clamp
35	143-2-5854-00300	Wire Clamp
36	143-2-5604-00800	Spacer
37	143-2-5104-03900	Lever,Idler Release

NOTE: Parts order must contain Model Number, Part Number and Description.



NOTE:

Materials of Capacitors and Registors are abbreviated as follows.

OELECT	Electrolytic Capacitor
CERAM	Ceramic Capacitor
SEMI	Semiconductor Capacitor
MYLAR	Mylar Film Capacitor
ALSIC	Alsicon Capacitor
PMCON	Polyester Polypropylene Capacitor
TANTA	Tantal Electric Capacitor
CARBO	Carbon
FUSE	Fuse Registor
OMF	Oxide Metal Film
METAL	Metal Oxide Metal Film

Tolerance of Capacitor and Registor are noted with follow symboles.

D	±0.5 PF
J	±5%
K	±10%
M	±20%
P	+100%–0%
Z	+80%–20%

VIDEO CIRCUIT P.C.B. PARTS

Schematic Location	Parts No.	Description
	0-4014-00380	VIDEO AUDIO PC ASSY
	4-2354-00221	FRONT TERMINAL BOARD
	143-2-3504-00100	SHIELD CASE
	143-2-3504-00300	SHIELD CASE BOTTOM
		(CAPACITORS)
C201	C1EBDK333SP	SEMI 0.033μF 25V K
C202	C1EBDK333SP	SEMI 0.033μF 25V K
C203	C1HYDZ103F	CERAM 0.01μF 50V Z
C204	C1HCDJ680SL	CERAM 68pF 50V J
C205	C1HCDJ390SL	CERAM 39pF 50V J
C206	C1AREM476A	ELECT 47μF 10V M
C207	C1HYDZ223F	CERAM 0.022μF 50V Z
C208	C1HCDJ471SL	CERAM 470pF 50V J
C210	C1HCDJ151SL	CERAM 150pF 50V J
C211	C1HCDJ270SL	CERAM 27pF 50V J
C212	C1HCDJ330SL	CERAM 33pF 50V J
C213	C1EBDK333SP	SEMI 0.033μF 25V K
C214	C1EBDK333SP	SEMI 0.033μF 25V K
C215	C1EUEK474A	ALSIC 0.47μF 25V K
C216	C1AREM476A	ELECT 47μF 10V M
C217	C1HYDZ223F	CERAM 0.022μF 50V Z
C218	C1HCDJ121SL	CERAM 120pF 50V J
C219	C1HCDJ471SL	CERAM 470pF 50V J
C221	C1EBDK333SP	SEMI 0.033μF 25V K
C223	C1EBDK333SP	SEMI 0.033μF 25V K
C224	C1HCDJ151CH	CERAM 150pF 50V J
C225	C1HCDJ150CH	CERAM 15pF 50V J
C226	C1EBDK223SP	SEMI 0.022μF 25V K
C227	C1HREM105A	ELECT 1μF 50V M
C228	C1HREM105A	ELECT 1μF 50V M
C229	C1EBDK223SP	SEMI 0.022μF 25V K
C230	C1CREM106A	ELECT 10μF 16V M
C231	C1CREM106A	ELECT 10μF 16V M
C232	C1HYDZ223F	CERAM 0.022μF 50V Z
C233	C1AREM476A	ELECT 47μF 10V M
C234	C1HYDZ223F	CERAM 0.022μF 50V Z
C235	C1AREM476A	ELECT 47μF 10V M
C236	C1HYDZ223F	CERAM 0.022μF 50V Z
C237	C1HYDZ103F	CERAM 0.01μF 50V Z
C238	C1HREM105A	ELECT 1μF 50V M
C239	C1HREM105A	ELECT 1μF 50V M
C240	C1AREM476A	ELECT 47μF 10V M
C241	C1EBDK223SP	SEMI 0.022μF 25V K
C242	C1HYDZ223F	CERAM 0.022μF 50V Z
C243	C1HYDZ223F	CERAM 0.022μF 50V Z
C244	C1HCDJ221SL	CERAM 220pF 50V J
C245	C1HYDZ223F	CERAM 0.022μF 50V Z
C246	C1HYDZ223F	CERAM 0.022μF 50V Z
C247	C1HCDJ120CH	CERAM 12pF 50V J
C248	C1EBDK103SP	SEMI 0.01μF 25V K
C249	C1EBDK103SP	SEMI 0.01μF 25V K
C251	C1HYDZ223F	CERAM 0.022μF 50V Z
C252	C1HCDJ391SL	CERAM 390pF 50V J
C253	C1HCDJ820SL	CERAM 82pF 50V J
C254	C1HCDJ471SL	CERAM 470pF 50V J
C255	C1EREM475A	ELECT 4.7μF 25V M
C256	C1EREM475A	ELECT 4.7μF 25V M
C257	C1HYDZ223F	CERAM 0.022μF 50V Z
C258	C1AREM227A	ELECT 220μF 10V M
C259	C1CREM106A	ELECT 10μF 16V M
C260	C1HYDZ223F	CERAM 0.022μF 50V Z
C261	C1HCDJ470SL	CERAM 47pF 50V J
C262	C1EREM475A	ELECT 4.7μF 25V M
C263	C1HYDZ103F	CERAM 0.01μF 50V Z
C264	C1EBDK333SP	SEMI 0.033μF 25V K
C265	C1HCDJ820SL	CERAM 82pF 50V J
C266	C1EBDK333SP	SEMI 0.033μF 25V K
C267	C1CREM226A	ELECT 22μF 16V M
C268	C1HREM335A	ELECT 3.3μF 50V M
C269	C1EBDK333SP	SEMI 0.033μF 25V K
C270	C1HFRK273A	MYLAR 0.027μF 50V K
C271	C1EBDK103SP	SEMI 0.01μF 25V K
C272	C1HREM474A	ELECT 0.47μF 50V M
C273	C1CREM226A	ELECT 22μF 16V M
C274	C1HCDJ330SL	CERAM 33pF 50V J
C275	C1HCDJ151SL	CERAM 150pF 50V J
C276	C1HCDJ101SL	CERAM 100pF 50V J
C277	C1HYDK682B	CERAM 0.0068μF 50V K
C278	C1HREM105A	ELECT 1μF 50V M
C279	C1HCDJ221SL	CERAM 220pF 50V J
C280	C1EBDK103SP	SEMI 0.01μF 25V K

Schematic Location	Parts No.	Description
C281	C1HFRK104A	MYLAR 0.1μF 50V K
C282	C1HCDJ560SL	CERAM 56pF 50V J
C283	C1HREM474A	ELECT 0.47μF 50V M
C284	C1HYDK102B	CERAM 0.001μF 50V K
C285	C1HYDZ223F	CERAM 0.022μF 50V Z
C286	C1HYDK681B	CERAM 680pF 50V K
C287	C1HCDJ820CH	CERAM 82pF 50V J
C288	C1EBDK103SP	SEMI 0.01μF 25V K
C289	C1EBDK103SP	SEMI 0.01μF 25V K
C290	C1EAEM475A	ELECT 4.7μF 25V M
C291	C1AREM476A	ELECT 47μF 10V M
C292	C1HCDJ220SL	CERAM 22pF 50V J
C293	C1HFRK103A	MYLAR 0.01μF 50V K
C294	C1HYDK472B	CERAM 0.0047μF 50V K
C295	C1HYDK821B	CERAM 820pF 50V K
C296	C1EBDK104SR	SEMI 0.1μF 25V K
C297	C1EBDK103SP	SEMI 0.01μF 25V K
C299	C1EBDK223SP	SEMI 0.022μF 25V K
C301	C1HYDZ103F	CERAM 0.01μF 50V Z
C302	C1HREM224A	ELECT 0.22μF 50V M
C303	C1HYDZ103F	CERAM 0.01μF 50V Z
C304	C1HYDK332B	CERAM 0.0033μF 50V K
C305	C1EUEK334A	ALSIC 0.33μF 25V K
C306	C1HREM335A	ELECT 3.3μF 50V M
C307	C1HYDK682B	CERAM 0.0068μF 50V K
C308	C1HYDZ223F	CERAM 0.022μF 50V Z
C309	C1EREM475A	ELECT 4.7μF 25V M
C310	4-2244-00010	TRIMMER CON 40P
C312	C1EREM475A	ELECT 4.7μF 25V M
C313	C1HFRK183A	MYLAR 0.018μF 50V K
C314	C1HCDJ820CH	CERAM 82pF 50V J
C315	C1HCDJ120CH	CERAM 12pF 50V J
C316	C1HCDJ220CH	CERAM 22pF 50V J
C317	C1EBDK223SP	SEMI 0.022μF 25V K
C318	C1CREM336A	ELECT 33μF 16V M
C319	C1HYDK152B	CERAM 0.0015μF 50V K
C320	C1HCDJ270SL	CERAM 27pF 50V J
C321	C1HYDK561B	CERAM 560pF 50V K
C322	C1EUEK224A	ALSIC 0.22μF 25V K
C323	C1EBDK223SP	SEMI 0.022μF 25V K
C324	C1HYDK681B	CERAM 680pF 50V K
C325	C1HCDJ220SL	CERAM 22pF 50V J
C326	C1HYDZ223F	CERAM 0.022μF 50V Z
C327	C1AREM476A	ELECT 47μF 10V M
C328	C1HYDZ223F	CERAM 0.022μF 50V Z
C329	C1EUEK154A	ALSIC 0.15μF 25V K
C330	C1EBDK103SP	SEMI 0.01μF 25V K
C331	C1HYDZ223F	CERAM 0.022μF 50V Z
C332	C1AREM476A	ELECT 47μF 10V M
C333	C1HCDJ180SL	CERAM 18pF 50V J
C334	C1HYDZ103F	CERAM 0.01μF 50V Z
C335	C1HFRK273A	MYLAR 0.027μF 50V K
C336	C1AREM107A	ELECT 100μF 10V M
C337	C1HYDZ223F	CERAM 0.022μF 50V Z
C338	C1HREM224A	ELECT 0.22μF 50V M
C339	C1AREM476A	ELECT 47μF 10V M
C340	C1EBDK473SP	SEMI 0.047μF 25V K
C341	C1HFRK333A	MYLAR 0.033μF 50V K
C342	C1HCDJ471SL	CERAM 470pF 50V J
C343	C1HCDJ121SL	CERAM 120pF 50V J
C344	C1HYDK102B	CERAM 0.001μF 50V K
C345	C1HFRK103A	MYLAR 0.01μF 50V K
C347	C1HYDK102B	CERAM 0.001μF 50V K
C348	C1HCDJ331SL	CERAM 330pF 50V J
C349	C1HYDK561B	CERAM 560pF 50V K
C351	C1EBDK223SP	SEMI 0.022μF 25V K
C352	C1EBDK103SP	SEMI 0.01μF 25V K
C353	C1EBDK103SP	SEMI 0.01μF 25V K

Schematic Location	Parts No.	Description
C354	C1AREM476A	ELECT 47μF 10V M
C357	C1AREM107A	ELECT 100μF 10V M
C358	C1HYDZ223F	CERAM 0.022μF 50V Z
C359	C1AREM107A	ELECT 100μF 10V M
C361	C0GREM010T	ELECT 470μF 4V M
C362	C1HYDZ223F	CERAM 0.022μF 50V Z
C363	C1AREM107A	ELECT 100μF 10V M
C364	C1HYDK472B	CERAM 0.0047μF 50V K
C365	C1HYDK472B	CERAM 0.0047μF 50V K
C366	C1HREM105A	ELECT 1μF 50V M
C367	C1CREM106A	ELECT 10μF 16V M
C368	C0JDFM007T	ELECT 1000μF 6.3V M
or	C0JDFM008T	ELECT 1000μF 6.3V M
CF1	4-2534-00140	4.5M CERAMIC FILTER
		(DIODES)
D201	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D202	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D203	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D204	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D205	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D206	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D207	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D208	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D209	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D211	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D212	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D213	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D214	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D215	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D216	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D217	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D218	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
DL201	4-2844-00030	DELAY LINE
DL202	4-2844-00040	DELAY LINE
IC201	IHHA11724	IC HA 11724
IC202	IHHA11725	IC HA 11725
IC203	IHHA11741	IC HA 11741
IC204	IYBA7004	IC BA 7004
		(COILS)
L201	4-2724-Z8R2K	INDUCTOR 8.2μH
L202	4-2724-Z8R2K	INDUCTOR 8.2μH
L203	4-2724-Z390K	INDUCTOR 39μH
L204	4-2724-Z101K	INDUCTOR 100μH
L205	4-2724-Z221K	INDUCTOR 220μH
L206	4-2724-Z100K	INDUCTOR 10μH
L207	4-2724-Z560K	INDUCTOR 56μH

Schematic Location	Parts No.	Description
L208	4-2724-Z151K	INDUCTOR 150μH
L209	4-2724-Z390K	INDUCTOR 39μH
L211	4-2724-P471K	INDUCTOR 470μH
L212	4-2724-Z101K	INDUCTOR 100μH
L213	4-2724-Z221K	INDUCTOR 220μH
L214	4-2724-Z270K	INDUCTOR 27μH
L215	4-2724-P681K	INDUCTOR 680μH
L216	4-2724-Z470K	INDUCTOR 47μH
L217	4-2724-Z221K	INDUCTOR 220μH
L218	4-2724-P821K	INDUCTOR 820μH
L219	4-2724-Z390K	INDUCTOR 39μH
L220	4-2724-Z101K	INDUCTOR 100μH
L221	4-2724-P221K	INDUCTOR 220μH
L222	4-2724-Z221K	INDUCTOR 220μH
L223	4-2724-Z270K	INDUCTOR 27μH
L224	4-2724-Z3R9K	INDUCTOR 3.9μH
L225	4-2554-00070	INDUCTOR 15μH
L226	4-2554-00060	INDUCTOR 12μH
L227	4-2724-P561K	INDUCTOR 560μH
L228	4-2724-P471K	INDUCTOR 470μH
L230	4-2724-Z3R9K	INDUCTOR 3.9μH
L251	4-2594-00040	TRAP COIL
L252	4-2534-00070	1.4M HIGH PASS FILTER
L253	4-2534-00080	1.5M LOW PASS FILTER
L254	4-2534-00090	3.5M LOW PASS FILTER
L255	4-2534-00100	DELAY EQUALIZER
L256	4-2534-00110	1.5M LOW PASS FILTER
L257	4-2534-00120	5.06M BAND PASS FILTER
L258	4-2534-00130	4.43M BAND PASS FILTER
PV201	4-2364-00060	6P PLUG VERTICAL
PV202	4-2364-00080	8P PLUG VERTICAL
PV204	4-2364-00030	3P PLUG VERTICAL
PV205	4-2364-00040	4P PLUG VERTICAL
PV206	4-2364-00060	6P PLUG VERTICAL
PV207	4-2364-00040	4P PLUG VERTICAL
PV208	4-2364-00050	5P PLUG VERTICAL
PV209	4-2364-00060	6P PLUG VERTICAL
PV210	4-2364-00020	2P PLUG VERTICAL
PV211	4-2364-00030	3P PLUG VERTICAL
PV214	4-2364-00020	2P PLUG VERTICAL
PV215	4-2364-00020	2P PLUG VERTICAL
PV216	4-2364-00050	5P PLUG VERTICAL
		(TRANSISTORS)
Q201	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q202	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q203	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q204	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q205	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q206	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q207	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q208	TG2SC2274F	TR 2SC2274(F)
or	TN2SC2002K	TR 2SC2002(K)or(L)
Q209	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q211	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q212	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q213	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q214	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q215	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q216	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q217	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q218	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q219	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q221	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)

Schematic Location	Parts No.	Description
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q222	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q223	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q224	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q225	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q226	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q227	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q228	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q229	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q231	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q232	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q235	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q236	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q237	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q238	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)

Schematic Location	Parts No.	Description
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q243	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q244	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q245	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q246	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q247	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q248	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q249	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q251	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q252	TG2SC2999E	TR 2SC2999(E)
Q253	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q254	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q255	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q256	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q257	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)

Schematic Location	Parts No.	Description
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q258	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q259	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q261	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q262	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q263	TG2SC2274F	TR 2SC2274(F)
or	TN2SC2002K	TR 2SC2002(K)or(L)
Q264	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q265	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175F	TR 2SA1175(F)or(H)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q266	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q267	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q268	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
		(RESISTORS)
R2001	R2EDPJ682A	CARBO 6.8k 1/4W J
R2002	R2EDPJ182A	CARBO 1.8k 1/4W J
R2003	R2EDPJ103A	CARBO 10k 1/4W J
R2004	R2EDPJ102A	CARBO 1k 1/4W J
R2005	R2EDPJ103A	CARBO 10k 1/4W J
R2006	R2EDPJ103A	CARBO 10k 1/4W J
R2007	R2EDPJ182A	CARBO 1.8k 1/4W J
R2008	R2EDPJ564A	CARBO 560k 1/4W J
R2009	R2EDUJ183A	CARBO 18k 1/4W J
R201	R2EDPJ221A	CARBO 220 1/4W J
R2011	R2EDUJ123A	CARBO 12k 1/4W J
R2012	R2EDUJ273A	CARBO 27k 1/4W J
R2013	R2EDUJ273A	CARBO 27k 1/4W J
R2014	R2EDUJ103A	CARBO 10k 1/4W J
R2015	R2EDUJ221A	CARBO 220 1/4W J
R2016	R2EDPJ123A	CARBO 12k 1/4W J
R2017	R2EDUJ333A	CARBO 33k 1/4W J
R2018	R2EDUJ272A	CARBO 2.7k 1/4W J

Schematic Location	Parts No.	Description
R2019	R2EDUJ331A	CARBO 330 1/4W J
R202	R2EDPJ391A	CARBO 390 1/4W J
R2020	R2EDUJ101A	CARBO 100 1/4W J
R2021	R2EDUJ182A	CARBO 1.8k 1/4W J
R2022	R2EDUJ682A	CARBO 6.8k 1/4W J
R2023	R2EDUJ273A	CARBO 27k 1/4W J
R2024	R2EDPJ391A	CARBO 390 1/4W J
R2025	R2EDUJ331A	CARBO 330 1/4W J
R2026	R2EDUJ152A	CARBO 1.5k 1/4W J
R2027	R2EDPJ102A	CARBO 1k 1/4W J
R2028	R2EDPJ152A	CARBO 1.5k 1/4W J
R2029	R2EDPJ472A	CARBO 4.7k 1/4W J
R203	R2EDPJ152A	CARBO 1.5k 1/4W J
R2030	R2EDUJ105A	CARBO 1M 1/4W J
R2031	R2EDPJ103A	CARBO 10k 1/4W J
R2032	R2EDPJ332A	CARBO 3.3k 1/4W J
R2033	R2EDPJ222A	CARBO 2.2k 1/4W J
R2034	R2EDPJ182A	CARBO 1.8k 1/4W J
R2035	R2EDPJ562A	CARBO 5.6k 1/4W J
R2036	R2EDUJ102A	CARBO 1k 1/4W J
R2037	R2EDPJ271A	CARBO 270 1/4W J
R2038	R2EDPJ562A	CARBO 5.6k 1/4W J
R2039	R2EDPJ152A	CARBO 1.5k 1/4W J
R204	R2EDPJ153A	CARBO 15k 1/4W J
R2041	R2EDPJ822A	CARBO 8.2k 1/4W J
R2042	R2EDUJ472A	CARBO 4.7k 1/4W J
R2043	R2EDPJ273A	CARBO 27k 1/4W J
R2044	R2EDPJ181A	CARBO 180 1/4W J
R2045	R2EDPJ102A	CARBO 1k 1/4W J
R2046	R2EDPJ563A	CARBO 56k 1/4W J
R2047	R2EDUJ102A	CARBO 1k 1/4W J
R2048	R2EDUJ104A	CARBO 100k 1/4W J
R2049	R2EDPJ152A	CARBO 1.5k 1/4W J
R205	R2EDPJ392A	CARBO 3.9k 1/4W J
R2051	R2EDUJ103A	CARBO 10k 1/4W J
R2052	R2EDUJ123A	CARBO 12k 1/4W J
R2053	R2EDUJ563A	CARBO 56k 1/4W J
R2054	R2EDUJ123A	CARBO 12k 1/4W J
R2055	R2EDPJ221A	CARBO 220 1/4W J
R2056	R2EDPJ680A	CARBO 68 1/4W J
R2057	R2EDUJ221A	CARBO 220 1/4W J
R2058	R2EDPJ121A	CARBO 120 1/4W J
R2059	R2EDPJ680A	CARBO 68 1/4W J
R206	R2EDPJ471A	CARBO 470 1/4W J
R2061	R2EDUJ331A	CARBO 330 1/4W J
R2062	R2EDPJ121A	CARBO 120 1/4W J
R2063	R2EDPJ470A	CARBO 47 1/4W J
R2064	R2EDUJ273A	CARBO 27k 1/4W J
R2065	R2EDPJ183A	CARBO 18k 1/4W J
R2066	R2EDUJ273A	CARBO 27k 1/4W J
R2067	R2EDUJ152A	CARBO 1.5k 1/4W J
R2068	R2EDPJ152A	CARBO 1.5k 1/4W J
R2069	R2EDPJ152A	CARBO 1.5k 1/4W J
R207	R2EDPJ471A	CARBO 470 1/4W J
R2072	R2EDPJ102A	CARBO 1k 1/4W J
R2074	R2EDUJ332A	CARBO 3.3k 1/4W J
R2075	R2EDUJ101A	CARBO 100 1/4W J
R2076	R2EDPJ103A	CARBO 10k 1/4W J
R2077	R2EDUJ121A	CARBO 120 1/4W J
R2078	R2EDUJ153A	CARBO 15k 1/4W J
R2079	R2EDUJ750A	CARBO 75 1/4W J
R208	R2EDPJ471A	CARBO 470 1/4W J
R2081	R2EDPJ102A	CARBO 1k 1/4W J
R2082	R2EDUJ100A	CARBO 10 1/4W J
R2083	R2EDUJ223A	CARBO 22k 1/4W J
R2084	R2EDUJ562A	CARBO 5.6k 1/4W J
R2085	R2EDPJ102A	CARBO 1k 1/4W J
R2086	R2EDUJ331A	CARBO 330 1/4W J

Schematic Location	Parts No.	Description
R2087	R2EDUJ103A	CARBO 10k 1/4W J
R2088	R2EDUJ223A	CARBO 22k 1/4W J
R209	R2EDPJ222A	CARBO 2.2k 1/4W J
R210	R2EDPJ272A	CARBO 2.7k 1/4W J
R211	R2EDPJ182A	CARBO 1.8k 1/4W J
R212	R2EDPJ183A	CARBO 18k 1/4W J
R213	R2EDPJ471A	CARBO 470 1/4W J
R214	R2EDPJ473A	CARBO 47k 1/4W J
R215	R2EDPJ103A	CARBO 10k 1/4W J
R216	R2EDPJ821A	CARBO 820 1/4W J
R217	R2EDPJ471A	CARBO 470 1/4W J
R218	R2EDPJ102A	CARBO 1k 1/4W J
R219	R2EDPJ103A	CARBO 10k 1/4W J
R220	R2EDPJ103A	CARBO 10k 1/4W J
R221	R2EDPJ121A	CARBO 120 1/4W J
R222	R2EDPJ102A	CARBO 1k 1/4W J
R223	R2EDPJ392A	CARBO 3.9k 1/4W J
R224	R2EDPJ123A	CARBO 12k 1/4W J
R225	R2EDPJ100A	CARBO 10 1/4W J
R226	R2EDPJ102A	CARBO 1k 1/4W J
R227	R2EDPJ332A	CARBO 3.3k 1/4W J
R228	R2EDPJ183A	CARBO 18k 1/4W J
R229	R2EDPJ182A	CARBO 1.8k 1/4W J
R231	R2EDPJ331A	CARBO 330 1/4W J
R232	R2EDPJ123A	CARBO 12k 1/4W J
R233	R2EDPJ154A	CARBO 150k 1/4W J
R234	R2EDPJ154A	CARBO 150k 1/4W J
R235	R2EDPJ332A	CARBO 3.3k 1/4W J
R236	R2EDPJ560A	CARBO 56 1/4W J
R237	R2EDPJ332A	CARBO 3.3k 1/4W J
R238	R2EDPJ682A	CARBO 6.8k 1/4W J
R239	R2EDPJ682A	CARBO 6.8k 1/4W J
R241	R2EDPJ681A	CARBO 680 1/4W J
R242	R2EDPJ681A	CARBO 680 1/4W J
R243	R2EDPJ100A	CARBO 10 1/4W J
R244	R2EDPJ100A	CARBO 10 1/4W J
R245	R2EDPJ332A	CARBO 3.3k 1/4W J
R246	R2EDPJ332A	CARBO 3.3k 1/4W J
R247	R2EDPJ561A	CARBO 560 1/4W J
R248	R2EDPJ332A	CARBO 3.3k 1/4W J
R249	R2EDPJ332A	CARBO 3.3k 1/4W J
R251	R2EDPJ150A	CARBO 15 1/4W J
R252	R2EDPJ103A	CARBO 10k 1/4W J
R253	R2EDPJ391A	CARBO 390 1/4W J
R254	R2EDPJ390A	CARBO 39 1/4W J
R255	R2EDPJ122A	CARBO 1.2k 1/4W J
R256	R2EDPJ103A	CARBO 10k 1/4W J
R257	R2EDPJ103A	CARBO 10k 1/4W J
R258	R2EDPJ222A	CARBO 2.2k 1/4W J
R259	R2EDPJ103A	CARBO 10k 1/4W J
R261	R2EDPJ103A	CARBO 10k 1/4W J
R262	R2EDPJ101A	CARBO 100 1/4W J
R263	R2EDPJ391A	CARBO 390 1/4W J
R264	R2EDPJ331A	CARBO 330 1/4W J
R265	R2EDPJ471A	CARBO 470 1/4W J
R266	R2EDPJ471A	CARBO 470 1/4W J
R267	R2EDPJ471A	CARBO 470 1/4W J
R268	R2EDPJ823A	CARBO 82k 1/4W J
R269	R2EDPJ223A	CARBO 22k 1/4W J
R271	R2EDPJ153A	CARBO 15k 1/4W J
R272	R2EDPJ393A	CARBO 39k 1/4W J
R273	R2EDPJ122A	CARBO 1.2k 1/4W J
R274	R2EDPJ102A	CARBO 1k 1/4W J
R275	R2EDPJ681A	CARBO 680 1/4W J
R276	R2EDPJ471A	CARBO 470 1/4W J
R277	R2EDPJ471A	CARBO 470 1/4W J
R278	R2EDPJ102A	CARBO 1k 1/4W J
R279	R2EDPJ821A	CARBO 820 1/4W J

Schematic Location	Parts No.	Description
R281	R2EDPJ221A	CARBO 220 1/4W J
R282	R2EDPJ394A	CARBO 390k 1/4W J
R283	R2EDPJ123A	CARBO 12k 1/4W J
R284	R2EDPJ153A	CARBO 15k 1/4W J
R285	R2EDPJ223A	CARBO 22k 1/4W J
R286	R2EDPJ123A	CARBO 12k 1/4W J
R287	R2EDPJ123A	CARBO 12k 1/4W J
R288	R2EDPJ562A	CARBO 5.6k 1/4W J
R289	R2EDPJ562A	CARBO 5.6k 1/4W J
R291	R2EDPJ473A	CARBO 47k 1/4W J
R292	R2EDPJ102A	CARBO 1k 1/4W J
R293	R2EDPJ103A	CARBO 10k 1/4W J
R294	R2EDPJ223A	CARBO 22k 1/4W J
R295	R2EDPJ183A	CARBO 18k 1/4W J
R296	R2EDPJ154A	CARBO 150k 1/4W J
R297	R2EDPJ183A	CARBO 18k 1/4W J
R298	R2EDPJ224A	CARBO 220k 1/4W J
R299	R2EDPJ821A	CARBO 820 1/4W J
R301	R2EDPJ104A	CARBO 100k 1/4W J
R302	R2EDPJ101A	CARBO 100 1/4W J
R303	R2EDPJ103A	CARBO 10k 1/4W J
R304	R2EDPJ392A	CARBO 3.9k 1/4W J
R305	R2EDPJ392A	CARBO 3.9k 1/4W J
R306	R2EDPJ392A	CARBO 3.9k 1/4W J
R307	R2EDPJ394A	CARBO 390k 1/4W J
R308	R2EDPJ222A	CARBO 2.2k 1/4W J
R309	R2EDPJ184A	CARBO 180k 1/4W J
R311	R2EDPJ155A	CARBO 1.5M 1/4W J
R312	R2EDPJ273A	CARBO 27k 1/4W J
R313	R2EDPJ333A	CARBO 33k 1/4W J
R314	R2EDPJ272A	CARBO 2.7k 1/4W J
R315	R2EDPJ681A	CARBO 680 1/4W J
R316	R2EDPJ102A	CARBO 1k 1/4W J
R317	R2EDPJ121A	CARBO 120 1/4W J
R318	R2EDPJ152A	CARBO 1.5k 1/4W J
R319	R2EDPJ472A	CARBO 4.7k 1/4W J
R321	R2EDPJ103A	CARBO 10k 1/4W J
R322	R2EDPJ103A	CARBO 10k 1/4W J
R323	R2EDPJ223A	CARBO 22k 1/4W J
R324	R2EDPJ392A	CARBO 3.9k 1/4W J
R325	R2EDPJ103A	CARBO 10k 1/4W J
R326	R2EDPJ123A	CARBO 12k 1/4W J
R327	R2EDPJ332A	CARBO 3.3k 1/4W J
R328	R2EDPJ181A	CARBO 180 1/4W J
R329	R2EDPJ122A	CARBO 1.2k 1/4W J
R331	R2EDPJ332A	CARBO 3.3k 1/4W J
R332	R2EDPJ471A	CARBO 470 1/4W J
R333	R2EDPJ102A	CARBO 1k 1/4W J
R334	R2EDPJ122A	CARBO 1.2k 1/4W J
R335	R2EDPJ391A	CARBO 390 1/4W J
R336	R2EDPJ471A	CARBO 470 1/4W J
R337	R2EDPJ223A	CARBO 22k 1/4W J
R338	R2EDPJ472A	CARBO 4.7k 1/4W J
R339	R2EDPJ562A	CARBO 5.6k 1/4W J
R341	R2EDPJ222A	CARBO 2.2k 1/4W J
R342	R2EDPJ102A	CARBO 1k 1/4W J
R343	R2EDUJ102A	CARBO 1k 1/4W J
R344	R2EDUJ152A	CARBO 1.5k 1/4W J
R345	R2EDPJ122A	CARBO 1.2k 1/4W J
R346	R2EDUJ101A	CARBO 100 1/4W J
R347	R2EDPJ564A	CARBO 560k 1/4W J
R348	R2EDPJ102A	CARBO 1k 1/4W J
R349	R2EDPJ562A	CARBO 5.6k 1/4W J
R350	R2EDPJ472A	CARBO 4.7k 1/4W J
R351	R2EDPJ682A	CARBO 6.8k 1/4W J
R352	R2EDPJ681A	CARBO 680 1/4W J
R353	R2EDPJ332A	CARBO 3.3k 1/4W J
R354	R2EDPJ562A	CARBO 5.6k 1/4W J

Schematic Location	Parts No.	Description
R355	R2EDPJ183A	CARBO 18k 1/4W J
R356	R2EDPJ221A	CARBO 220 1/4W J
R357	R2EDPJ182A	CARBO 1.8k 1/4W J
R358	R2EDPJ472A	CARBO 4.7k 1/4W J
R362	R2EDPJ391A	CARBO 390 1/4W J
R363	R2EDPJ182A	CARBO 1.8k 1/4W J
R364	R2EDPJ222A	CARBO 2.2k 1/4W J
R365	R2EDPJ103A	CARBO 10k 1/4W J
R366	R2EDPJ123A	CARBO 12k 1/4W J
R367	R2EDPJ223A	CARBO 22k 1/4W J
R368	R2EDPJ682A	CARBO 6.8k 1/4W J
R369	R2EDPJ223A	CARBO 22k 1/4W J
R371	R2EDPJ563A	CARBO 56k 1/4W J
R372	R2EDPJ562A	CARBO 5.6k 1/4W J
R373	R2EDPJ223A	CARBO 22k 1/4W J
R374	R2EDPJ332A	CARBO 3.3k 1/4W J
R376	R2EDPJ333A	CARBO 33k 1/4W J
R377	R2EDPJ274A	CARBO 270k 1/4W J
R378	R2EDPJ223A	CARBO 22k 1/4W J
R384	R2EDPJ332A	CARBO 3.3k 1/4W J
R385	R2EDPJ103A	CARBO 10k 1/4W J
R386	R2EDPJ102A	CARBO 1k 1/4W J
R387	R2EDPJ561A	CARBO 560 1/4W J
R388	R2EDPJ102A	CARBO 1k 1/4W J
R389	R2EDPJ682A	CARBO 6.8k 1/4W J
R391	R2EDPJ153A	CARBO 15k 1/4W J
R392	R2EDPJ471A	CARBO 470 1/4W J
R393	R2EDPJ823A	CARBO 82k 1/4W J
R394	R2EDPJ391A	CARBO 390 1/4W J
R395	R2EDPJ562A	CARBO 5.6k 1/4W J
R396	R2EDPJ222A	CARBO 2.2k 1/4W J
R397	R2EDPJ122A	CARBO 1.2k 1/4W J
R398	R2EDPJ472A	CARBO 4.7k 1/4W J
R399	R2EDPJ681A	CARBO 680 1/4W J
R2100	R2CDPJ332A	CARBO 3.3k 1/6W J
R859	R2EDPJ103A	CARBO 10k 1/4W J
TP200	4-2374-00030	TEST POINT PIN
TP201	4-2374-00030	TEST POINT PIN
TP202	4-2374-00030	TEST POINT PIN
TP203	4-2374-00030	TEST POINT PIN
TP204	4-2374-00030	TEST POINT PIN
TP205	4-2374-00030	TEST POINT PIN
TP206	4-2374-00030	TEST POINT PIN
TP207	4-2374-00030	TEST POINT PIN
TP208	4-2374-00030	TEST POINT PIN
TP209	4-2374-00030	TEST POINT PIN
TP210	4-2374-00030	TEST POINT PIN
TP211	4-2374-00030	TEST POINT PIN
TP212	4-2374-00030	TEST POINT PIN
TP213	4-2374-00030	TEST POINT PIN
TP214	4-2374-00030	TEST POINT PIN
TP215	4-2374-00030	TEST POINT PIN
TP216	4-2374-00030	TEST POINT PIN
TP217	4-2374-00030	TEST POINT PIN
TP218	4-2374-00030	TEST POINT PIN
TP219	4-2374-00030	TEST POINT PIN
TP220	4-2374-00030	TEST POINT PIN
TP221	4-2374-00030	TEST POINT PIN
TP222	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTORS)
VR201	4-2224-00050	SEMI 10kB
VR202	4-2224-00310	SEMI 5kB
VR203	4-2224-00050	SEMI 10kB
VR204	4-2224-00300	SEMI 2kB
VR205	4-2224-00200	SEMI 1kB
VR206	4-2224-00040	SEMI 5kB

Schematic Location	Parts No.	Description
VR207	4-2224-00010	SEMI 500B
VR208	4-2224-00050	SEMI 10kB
VR209	4-2224-00050	SEMI 10kB
VR210	4-2224-00300	SEMI 2kB
VR211	4-2224-00050	SEMI 10kB
VR212	4-2224-00210	SEMI 20kB
VR213	4-2224-00320	SEMI 10kB
VR214	4-2224-00020	SEMI 2kB
VR721	4222400080	VR200kBx1
X201	4-2254-00050	4.435M CRYSTAL
X202	4-2254-00040	4.433M CRYSTAL
X203	4-2254-00060	500kHz RESONATOR
	143-2-3504-00200	SHIELD CASE TOP

AUDIO CIRCUIT P.C.B PARTS

Schematic Location	Parts No.	Description
	0-4014-00380	VIDEO AUDIO PC ASSY
	4-2354-00222	FRONT TERMINAL BOARD
		(CAPACITORS)
C404	C1AREM107A	ELECT 100μF 10V M
C405	C1HREM105A	ELECT 1μF 50V M
C406	C1CREM106A	ELECT 10μF 16V M
C407	C1CREM106A	ELECT 10μF 16V M
C408	C1CREM106A	ELECT 10μF 16V M
C409	C1CREM106A	ELECT 10μF 16V M
C410	C1CREM106A	ELECT 10μF 16V M
C411	C1HREM105A	ELECT 1μF 50V M
C412	C1CREM106A	ELECT 10μF 16V M
C413	C1AREM107A	ELECT 100μF 10V M
C414	C1HFRJ153A	MYLAR 0.015μF 50V J
C415	C1HFRJ222A	MYLAR 0.0022μF 50V J
C416	C1CREM107A	ELECT 100μF 16V M
C417	C1AREM336A	ELECT 33μF 10V M
C419	C2AFRJ473B	MYLAR 0.047μF 100V J
C420	C1CREM106A	ELECT 10μF 16V M
C421	C1HFRK103A	MYLAR 0.01μF 50V K
C422	C1EREM475A	ELECT 4.7μF 25V M
C423	C1HFRK682A	MYLAR 0.0068μF 50V K
C424	C1HYDK221B	CERAM 220pF 50V K
C425	C1HFRK332A	MYLAR 0.0033μF 50V K
C426	C1HYDK102B	CERAM 0.001μF 50V K
C427	C1AREM226A	ELECT 22μF 10V M
C428	C1AREM107A	ELECT 100μF 10V M
C429	C1CREM106A	ELECT 10μF 16V M
C430	C1HYDK681B	CERAM 680pF 50V K
C431	C1HYDK331B	CERAM 330pF 50V K
C432	C1HFRJ183A	MYLAR 0.018μF 50V J
C433	C1CREM106A	ELECT 10μF 16V M
C434	C1AREM476A	ELECT 47μF 10V M
C435	C1HFRJ122A	MYLAR 0.0012μF 50V J
C436	C1HFRK103A	MYLAR 0.01μF 50V K
		(DIODES)
D401	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D402	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D404	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D405	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D407	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
IC401	IYBA5102A	IC BA 5102A

Schematic Location	Parts No.	Description
		(COILS)
L401	4-2554-00020	INDUCTOR 15μH
L402	4-2594-00060	FH TRAP COIL
L404	4-2724P821K	INDUCTOR 820μH
L405	4-2594-00050	70kHz TRAP COIL
PV401	4-2364-00030	3P PLUG VERTICAL
PV402	4-2364-00020	2P PLUG VERTICAL
PV403	4-2364-00030	3P PLUG VERTICAL
		(TRANSISTORS)
Q401	TG2SC3071	TR 2SC3071
Q402	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
Q403	TG2SB698F	TR 2SB698(F)or(G)
or	TN2SA952L	TR 2SA952(L)or(M)
or	TT2SA950O	TR 2SA950(O)or(Y)
Q404	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
Q405	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
Q407	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
Q409	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
Q410	TG2SD734F	TR 2SD734(F)or(G)
Q411	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
Q412	TG2SA1016F	TR 2SA1016(F)or(G)
Q413	TG2SD545E	TR 2SD545(E)or(F)
Q414	TG2SC3071	TR 2SC3071
Q415	TG2SC3071	TR 2SC3071
		(RESISTORS)
R401	R2EDPJ561A	CARBO 560 1/4W J
R403	R2EDUJ682A	CARBO 6.8k 1/4W J
R404	R2EDUJ2R2A	CARBO 2.2 1/4W J
R405	R2EDPJ561A	CARBO 560 1/4W J
R406	R2EDUJ102A	CARBO 1k 1/4W J
R407	R2EDUJ822A	CARBO 8.2k 1/4W J
R408	R2EDPJ393A	CARBO 39k 1/4W J
R409	R2EDPJ683A	CARBO 68k 1/4W J
R410	R2EDPJ223A	CARBO 22k 1/4W J
R411	R2EDPJ683A	CARBO 68k 1/4W J
R412	R2EDPJ103A	CARBO 10k 1/4W J
R413	R2EDPJ331A	CARBO 330 1/4W J
R414	R2EDPJ222A	CARBO 2.2k 1/4W J
R415	R2EDUJ152A	CARBO 1.5k 1/4W J
R417	R2EDPJ822A	CARBO 8.2k 1/4W J
R418	R2EDPJ471A	CARBO 470 1/4W J
R419	R2EDPJ333A	CARBO 33k 1/4W J
R420	R2EDPJ682A	CARBO 6.8k 1/4W J
R421	R2EDUJ104A	CARBO 100k 1/4W J
R422	R2EDPJ471A	CARBO 470 1/4W J
R424	R2EDUJ103A	CARBO 10k 1/4W J
R425	R2EDUJ223A	CARBO 22k 1/4W J
R426	R2EDUJ103A	CARBO 10k 1/4W J
R427	R2EDPJ222A	CARBO 2.2k 1/4W J
R428	R2EDPJ822A	CARBO 8.2k 1/4W J
R429	R2EDPJ103A	CARBO 10k 1/4W J
R430	R2EDPJ102A	CARBO 1k 1/4W J
R431	R2EDUJ333A	CARBO 33k 1/4W J
R432	R2EDPJ333A	CARBO 33k 1/4W J
R433	R2EDUJ222A	CARBO 2.2k 1/4W J
R435	R2EDPJ333A	CARBO 33k 1/4W J
R438	R2EDPJ470A	CARBO 47 1/4W J
R439	R2EDPJ4R7A	CARBO 4.7 1/4W J
R441	R2EDPJ153A	CARBO 15k 1/4W J
R442	R2EDPJ333A	CARBO 33k 1/4W J
R443	R2EDPJ332A	CARBO 3.3k 1/4W J
R444	R2EDPJ223A	CARBO 22k 1/4W J
R445	R2EDPJ152A	CARBO 1.5k 1/4W J
R446	R2EDUJ101A	CARBO 100 1/4W J
R447	R2EDPJ184A	CARBO 180k 1/4W J
R448	R2EDPJ682A	CARBO 6.8k 1/4W J
R449	R2EDPJ181A	CARBO 180 1/4W J
R451	R2EDPJ273A	CARBO 27k 1/4W J
R452	R2EDPJ103A	CARBO 10k 1/4W J
R453	R2EDPJ103A	CARBO 10k 1/4W J
R454	R2EDPJ103A	CARBO 10k 1/4W J
R455	R2EDPJ223A	CARBO 22k 1/4W J
R456	R2EDPJ103A	CARBO 10k 1/4W J
R457	R2EDPJ332A	CARBO 3.3k 1/4W J
R458	R2EDPJ103A	CARBO 10k 1/4W J
R459	R2EDPJ103A	CARBO 10k 1/4W J
R461	R2EDPJ103A	CARBO 10k 1/4W J
R462	R2EDPJ103A	CARBO 10k 1/4W J
R463	R2EDPJ683A	CARBO 68k 1/4W J
T401	4-2584-00060	70kHz OSC TRANSFORMER
TP401	4-2374-00030	TEST POINT PIN
TP402	4-2374-00030	TEST POINT PIN
TP403	4-2374-00030	TEST POINT PIN
TP404	4-2374-00030	TEST POINT PIN
TP405	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTORS)
VR401	4-2224-00060	SEMI 20kB
VR402	4-2224-00280	SEMI 50kB
VR403	4-2224-00290	SEMI 100kB

SYSTEM CONTROL SERVO P.C.B PARTS

Schematic Location	Parts No.	Description
	0-4014-00390	SYSCON SERVO PC ASSY
		(CAPACITORS)
C501	C1EBDK223SP	SEMI 0.022μF 25V K
C502	C1EREM476A	ELECT 47μF 25V M
C503	C1HYDK102B	CERAM 0.001μF 50V K
C504	C1EBDK223SP	SEMI 0.022μF 25V K
C505	C1CREM227A	ELECT 220μF 16V M
C506	C1EREM476A	ELECT 47μF 25V M
C507	C1EBDK223SP	SEMI 0.022μF 25V K
C508	C1EBDK223SP	SEMI 0.022μF 25V K
C509	C1CREM107A	ELECT 100μF 16V M
C510	C1EBDK473SP	SEMI 0.047μF 25V K
C511	C1EREM476A	ELECT 47μF 25V M
C512	C0JREM477A	ELECT 470μF 6.3V M
C513	C1EBDK103SP	SEMI 0.01μF 25V K
C514	C1CREM106A	ELECT 10μF 16V M
C515	C1CREM226A	ELECT 22μF 16V M
C516	C1EBDK223SP	SEMI 0.022μF 25V K
C518	C1EREM476A	ELECT 47μF 25V M
C519	C1CREM476A	ELECT 47μF 16V M
C520	C1EBDK473SP	SEMI 0.047μF 25V K
C521	C1CREM106A	ELECT 10μF 16V M
C522	C1HCDJ101SL	CERAM 100pF 50V J

Schematic Location	Parts No.	Description
C525	C1EREM475A	ELECT 4.7μF 25V M
C526	C1HREM335A	ELECT 3.3μF 50V M
C527	C1HREM105A	ELECT 1μF 50V M
C528	C1HREM335A	ELECT 3.3μF 50V M
C531	C1HYDK102B	CERAM 0.001μF 50V K
C533	C1HFRK472A	MYLAR 0.0047μF 50V K
C534	C1HFRK472A	MYLAR 0.0047μF 50V K
C535	C1HFRK472A	MYLAR 0.0047μF 50V K
C536	C1HYDK102B	CERAM 0.001μF 50V K
C537	C1EBDK223SP	SEMI 0.022μF 25V K
C538	C1EUEK224A	ALSIC 0.22μF 25V K
C540	C1EBDK473SP	SEMI 0.047μF 25V K
C541	C1HFRK473A	MYLAR 0.047μF 50V K
C542	C1EBDK223SP	SEMI 0.022μF 25V K
C543	C1HFRK223A	MYLAR 0.022μF 50V K
C544	C1HFRK473A	MYLAR 0.047μF 50V K
C545	C1HREM105A	ELECT 1μF 50V M
C546	C1HFRK473A	MYLAR 0.047μF 50V K
C547	C1EUEK154A	ALSIC 0.15μF 25V K
C548	C1HREM105A	ELECT 1μF 50V M
C549	C1CREM106A	ELECT 10μF 16V M
C550	C1HYDK102B	CERAM 0.001μF 50V K
C551	C1CREM106A	ELECT 10μF 16V M
C701	C1HREM474A	ELECT 0.47μF 50V M
C702	C1HFRK333A	MYLAR 0.033μF 50V K
C703	C1HQRJ333A	PMCON 0.033μF 50V J
C704	C1CTCK475A	TANTA 4.7μF 16V K
C705	C1HFRK823A	MYLAR 0.082μF 50V K
C706	C1HYDK103B	CERAM 0.01μF 50V K
C707	C1CREM106A	ELECT 10μF 16V M
C708	C1HFRK473A	MYLAR 0.047μF 50V K
C709	C1AREM226A	ELECT 22μF 10V M
C710	C1HFRK472A	MYLAR 0.0047μF 50V K
C712	C1CREM107A	ELECT 100μF 16V M
C713	C1HCDJ560SL	CERAM 56pF 50V J
C714	C1HFRK333A	MYLAR 0.033μF 50V K
C715	C1HYDK471B	CERAM 470pF 50V K
C716	C1HFRK333A	MYLAR 0.033μF 50V K
C717	C1CREM106A	ELECT 10μF 16V M
C718	C1HYDK103B	CERAM 0.01μF 50V K
C719	C1HYDK103B	CERAM 0.01μF 50V K
C721	C1HFRK104A	MYLAR 0.1μF 50V K
C722	C1HFRK104A	MYLAR 0.1μF 50V K
C723	C1HREM105A	ELECT 1μF 50V M
C724	C1HYDK103B	CERAM 0.01μF 50V K
C725	C1HYDK103B	CERAM 0.01μF 50V K
C726	C1HFRK683C	MYLAR 0.068μF 50V K
C727	COJDFM011T	ELECT 470μF 6.3V M
C728	C1HFRK683C	MYLAR 0.068μF 50V K
C729	C1HFRK103A	MYLAR 0.01μF 50V K
C731	C1HFRK103A	MYLAR 0.01μF 50V K
C732	C1HREM335A	ELECT 3.3μF 50V M
C733	COJDFM011T	ELECT 470μF 6.3V M
C734	C1HFRK154C	MYLAR 0.15μF 50V K
C735	C1HFRK104A	MYLAR 0.1μF 50V K
C736	C1HFRK333A	MYLAR 0.033μF 50V K
C737	C1HYDK103B	CERAM 0.01μF 50V K
C738	C1HFRK104C	MYLAR 0.1μF 50V K
C739	C1HYDK471B	CERAM 470pF 50V K
C741	C1HFRK472A	MYLAR 0.0047μF 50V K
C742	C1CREM106A	ELECT 10μF 16V M
C743	C1HREM105A	ELECT 1μF 50V M
C744	C1CREM106A	ELECT 10μF 16V M
C745	C1HFRK473A	MYLAR 0.047μF 50V K
C746	C1HQRJ473A	PMCON 0.047μF 50V J
C747	C1EBDK223SP	SEMI 0.022μF 25V K
C748	COJTCK106A	TANTA 10μF 6.3V K
C749	C1HFRK103A	MYLAR 0.01μF 50V K

Schematic Location	Parts No.	Description
C751	C1HYDK103B	CERAM 0.01μF 50V K
C752	COJREM477A	ELECT 470μF 6.3V M
C753	C1HFRK473A	MYLAR 0.047μF 50V K
C754	C1AREM226A	ELECT 22μF 10V M
		(DIODES)
D501	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D502	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D503	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D504	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D505	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D506	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D507	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D508	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D509	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D510	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D511	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D512	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D513	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D514	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D515	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D517	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D518	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D519	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D521	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D522	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D523	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D524	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D527	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D529	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D531	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D533	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D534	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D536	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D537	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D539	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D541	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076

Schematic Location	Parts No.	Description
D542	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D701	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D702	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D703	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D704	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D705	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D706	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D707	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D708	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D709	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D711	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D712	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D715	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D716	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D717	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D178	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D719	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D721	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D726	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D727	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D728	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D729	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D731	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
IC501	IHHD4480-1A19	IC HD 4480-1A19
IC502	IFSANYO 002	HYBRID IC SANYO 002
or	IRSANYO 002	HYBRID IC SANYO 002
IC503	IGLA 6458DF	IC LA 6458DF
or	IJ NJM 4558DM	IC NJM 4558DM
IC504	IHHD 3870-1A06	IC HD 3870-1A06
IC505	IHHD 1450-6B	IC HD 1450-6B
IC505	ILMC 1450-6B	IC MC 1450-6B
IC506	IGLC 4013B	IC LC 4013B
or	ILMC 1401-3B	IC MC 1401-3B
or	INMPD 401-3BC	IC MPD 401-3BC
IC507	INMPD 406-9UBC	IC MPD 406-9UBC
or	ITTC 4069UBP	IC TC 4069UBP
IC508	IGLC 4081B	IC LC 4081B
or	ILMC 1408-1B	IC MC 1408-1B
IC509	IGLC 4013B	IC LC 4013B
or	INMPD 401-3BC	IC MPD 401-3BC
IC701	IHHA 11713	IC HA 1171-3
IC702	IHHA 11711	IC HA 1171-1
IC703	IHHA 11713	IC HA 1171-3
IC704	IGLC 4013B	IC LC 4013B
or	INMPD 401-3BC	IC MPD 401-3BC

Schematic Location	Parts No.	Description
PV506	4-2364-00030	3P PLUG VERTICAL
PV507	4-2364-00070	7P PLUG VERTICAL
PV509	4-2364-00060	6P PLUG VERTICAL
PV510	4-2364-00070	7P PLUG VERTICAL
PV511	4-2364-00060	6P PLUG VERTICAL
PV512	4-2364-00050	5P PLUG VERTICAL
PV513	4-2364-00080	8P PLUG VERTICAL
PV515	4-2364-00020	2P PLUG VERTICAL
PV516	4-2364-00080	8P PLUG VERTICAL
PV517	4-2364-00090	9P PLUG VERTICAL
PV518	4-2364-00020	2P PLUG VERTICAL
PV519	4-2364-00040	4P PLUG VERTICAL
PV521	4-2364-00030	3P PLUG VERTICAL
PV522	4-2364-00030	3P PLUG VERTICAL
		(TRANSISTORS)
Q501	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q502	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q503	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q504	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q505	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q506	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q507	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q508	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q509	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q511	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q512	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q513	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)

Schematic Location	Parts No.	Description
Q514	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q515	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q516	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q517	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q518	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q519	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q521	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q522	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q523	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q524	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q525	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q526	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q527	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q528	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)

Schematic Location	Parts No.	Description
Q531	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q532	TG2SA608NPG	TR 2SA608(G)
or	TG2SA608SPG	TR 2SA608(G)
or	TN2SA1175E	TR 2SA1175(E)
Q533	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q534	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q535	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q701	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q702	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q703	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q704	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q705	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q706	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q707	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q708	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q709	TG2SA608NPF	TR 2SA608NP(F)or(G)
or	TG2SA608SPF	TR 2SA608SP(F)or(G)
or	TN2SA1175E	TR 2SA1175(E)or(F)
or	TN2SA733P	TR 2SA733(P)or(Q)
or	TT2SA1015G	TR 2SA1015(G)or(Y)
Q713	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)

Schematic Location	Parts No.	Description
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q714	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q715	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TG2SC536SPF	TR 2SC536SP(F)or(G)
or	TN2SC2785E	TR 2SC2785(E)or(F)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q891	TG2SD313E	TR 2SD313(E)or(F)
Q893	TG2SD313E	TR 2SD313(E)or(F)
		(RESISTORS)
R501	R2EDPJ332A	CARBO 3.3k 1/4W J
R502	R2EDPJ561A	CARBO 560 1/4W J
R503	R2EDPJ102A	CARBO 1k 1/4W J
R504	R2EDPJ332A	CARBO 3.3k 1/4W J
R506	R2HDPJ102A	CARBO 1k 1/2W J
R507	R2EDPJ561A	CARBO 560 1/4W J
R508	R2EDPJ392A	CARBO 3.9k 1/4W J
R509	R2EDPJ223A	CARBO 22k 1/4W J
R511	R2EDPJ223A	CARBO 22k 1/4W J
R512	R2EDPJ472A	CARBO 4.7k 1/4W J
R513	R2EDPJ101A	CARBO 100 1/4W J
R514	R2EDPJ101A	CARBO 100 1/4W J
R515	R2EDPJ101A	CARBO 100 1/4W J
R516	R2EDPJ101A	CARBO 100 1/4W J
R517	R2EDPJ101A	CARBO 100 1/4W J
R518	R2EDPJ101A	CARBO 100 1/4W J
R519	R2EDPJ152A	CARBO 1.5k 1/4W J
R520	R2HDPJ122A	CARBO 1.2k 1/2W J
R521	R2EDPJ104A	CARBO 100k 1/4W J
R522	R2EDPJ104A	CARBO 100k 1/4W J
R523	R2EDPJ104A	CARBO 100k 1/4W J
R524	R2EDPJ104A	CARBO 100k 1/4W J
R525	R2EDPJ104A	CARBO 100k 1/4W J
R526	R2EDPJ223A	CARBO 22k 1/4W J
R527	R2EDPJ473A	CARBO 47k 1/4W J
R528	R2EDPJ473A	CARBO 47k 1/4W J
R529	R2EDPJ152A	CARBO 1.5k 1/4W J
R531	R2EDPJ223A	CARBO 22k 1/4W J
R532	R2EDPJ223A	CARBO 22k 1/4W J
R533	R2EDPJ561A	CARBO 560 1/4W J
R534	R2EDPJ223A	CARBO 22k 1/4W J
R535	R2EDPJ223A	CARBO 22k 1/4W J
R536	R2EDPJ223A	CARBO 22k 1/4W J
R537	R2EDPJ103A	CARBO 10k 1/4W J
R538	R2EDPJ223A	CARBO 22k 1/4W J
R539	R2EDPJ102A	CARBO 1k 1/4W J
R541	R2EDPJ332A	CARBO 3.3k 1/4W J
R542	R2EDPJ103A	CARBO 10k 1/4W J
R543	R2EDPJ473A	CARBO 47k 1/4W J
R544	R2EDPJ221A	CARBO 220 1/4W J
R545	R2EDPJ561A	CARBO 560 1/4W J
R546	R2EDPJ104A	CARBO 100k 1/4W J
R547	R2EDPJ104A	CARBO 100k 1/4W J
R548⚠	R2HZPK221A	FUSE 220 1/2W K
R549	R2EDPJ152A	CARBO 1.5k 1/4W J
R551	R2EDPJ104A	CARBO 100k 1/4W J
R552	R2EDPJ104A	CARBO 100k 1/4W J
R553	R2EDPJ684A	CARBO 680k 1/4W J
R554	R2EDPJ125A	CARBO 1.2M 1/4W J
R555	R2EDPJ684A	CARBO 680k 1/4W J
R556	R2EDPJ104A	CARBO 100k 1/4W J

Schematic Location	Parts No.	Description
R557	R2EDPJ104A	CARBO 100k 1/4W J
R558	R2EDPJ104A	CARBO 100k 1/4W J
R559	R2EDPJ104A	CARBO 100k 1/4W J
R561	R2EDPJ104A	CARBO 100k 1/4W J
R562	R2EDPJ473A	CARBO 47k 1/4W J
R563	R2EDPJ183A	CARBO 18k 1/4W J
R564	R2EDPJ104A	CARBO 100k 1/4W J
R565	R2EDPJ223A	CARBO 22k 1/4W J
R566	R2EDPJ473A	CARBO 47k 1/4W J
R567	R2EDPJ104A	CARBO 100k 1/4W J
R568	R2EDPJ104A	CARBO 100k 1/4W J
R569	R2EDPJ104A	CARBO 100k 1/4W J
R570	R2EDPJ104A	CARBO 100k 1/4W J
R571	R2EDPJ103A	CARBO 10k 1/4W J
R572	R2EDPJ104A	CARBO 100k 1/4W J
R573	R2EDPJ104A	CARBO 100k 1/4W J
R574	R2EDPJ104A	CARBO 100k 1/4W J
R575	R2EDPJ473A	CARBO 47k 1/4W J
R576	R2EDPJ101A	CARBO 100 1/4W J
R577	R2EDPJ103A	CARBO 10k 1/4W J
R578	R2EDPJ104A	CARBO 100k 1/4W J
R579	R2EDPJ152A	CARBO 1.5k 1/4W J
R580	R2EDPJ333A	CARBO 33k 1/4W J
R581	R2EDPJ473A	CARBO 47k 1/4W J
R582	R2EDPJ472A	CARBO 4.7k 1/4W J
R583	R2EDPJ104A	CARBO 100k 1/4W J
R584	R2EDPJ103A	CARBO 10k 1/4W J
R585	R2EDPJ101A	CARBO 100 1/4W J
R586	R2EDPJ101A	CARBO 100 1/4W J
R587	R2EDPJ101A	CARBO 100 1/4W J
R588	R2EDPJ101A	CARBO 100 1/4W J
R589	R2EDPJ101A	CARBO 100 1/4W J
R591	R2EDPJ101A	CARBO 100 1/4W J
R594	R2EDPJ104A	CARBO 100k 1/4W J
R596	R2EDPJ103A	CARBO 10k 1/4W J
R597	R2EDPJ102A	CARBO 1k 1/4W J
R598	R2EDPJ391A	CARBO 390 1/4W J
R599	R2EDPJ103A	CARBO 10k 1/4W J
R601	R2EDPJ102A	CARBO 1k 1/4W J
R602	R2EDPJ391A	CARBO 390 1/4W J
R603	R2EDPJ103A	CARBO 10k 1/4W J
R604	R2EDPJ104A	CARBO 100k 1/4W J
R605	R2EDPJ223A	CARBO 22k 1/4W J
R606	R2EDPJ102A	CARBO 1k 1/4W J
R607	R2EDPJ123A	CARBO 12k 1/4W J
R608	R2EDPJ104A	CARBO 100k 1/4W J
R609	R2EDPJ223A	CARBO 22k 1/4W J
R611	R2EDPJ102A	CARBO 1k 1/4W J
R612	R2EDPJ223A	CARBO 22k 1/4W J
R613	R2EDPJ333A	CARBO 33k 1/4W J
R614	R2EDPJ223A	CARBO 22k 1/4W J
R615	R2EDPJ473A	CARBO 47k 1/4W J
R616	R2EDPJ333A	CARBO 33k 1/4W J
R617	R2EDPJ103A	CARBO 10k 1/4W J
R618	R2EDPJ103A	CARBO 10k 1/4W J
R619	R2EDPJ562A	CARBO 5.6k 1/4W J
R621	R2EDPJ472A	CARBO 4.7k 1/4W J
R624	R2EDPJ823A	CARBO 82k 1/4W J
R625	R2EDPJ103A	CARBO 10k 1/4W J
R626	R2EDPJ104A	CARBO 100k 1/4W J
R628	R2EDPJ153A	CARBO 15k 1/4W J
R629	R2EDPJ153A	CARBO 15k 1/4W J
R630	R2EDPJ103A	CARBO 10k 1/4W J
R631	R2EDPJ222A	CARBO 2.2k 1/4W J
R632	R2EDPJ221A	CARBO 220 1/4W J
R635	R2EDPJ155A	CARBO 1.5M 1/4W J
R636	R2EDPJ334A	CARBO 330k 1/4W J
R637	R2EDPJ103A	CARBO 10k 1/4W J

Schematic Location	Parts No.	Description
R638	R2EDPJ393A	CARBO 39k 1/4W J
R640	R2EDPJ473A	CARBO 47k 1/4W J
R643	R2EDPJ104A	CARBO 100k 1/4W J
R644	R2EDPJ103A	CARBO 10k 1/4W J
R645	R2EDPJ104A	CARBO 100k 1/4W J
R646	R2EDPJ104A	CARBO 100k 1/4W J
R647	R2EDPJ104A	CARBO 100k 1/4W J
R648	R2EDPJ223A	CARBO 22k 1/4W J
R649	R2EDPJ103A	CARBO 10k 1/4W J
R650	R2EDPJ683A	CARBO 68k 1/4W J
R651	R2EDPJ105A	CARBO 1M 1/4W J
R652	R2EDPJ562A	CARBO 5.6k 1/4W J
R653	R2EDPJ473A	CARBO 47k 1/4W J
R654	R2EDPJ223A	CARBO 22k 1/4W J
R655	R2EDPJ331A	CARBO 330 1/4W J
R656	R2EDPJ473A	CARBO 47k 1/4W J
R657	R2EDPJ104A	CARBO 100k 1/4W J
R658	R2EDPJ473A	CARBO 47k 1/4W J
R659	R2EDPJ104A	CARBO 100k 1/4W J
R661	R2EDPJ104A	CARBO 100k 1/4W J
R662	R2EDPJ104A	CARBO 100k 1/4W J
R701	R2EDPJ102A	CARBO 1k 1/4W J
R702	R2EDPJ473A	CARBO 47k 1/4W J
R703	R2EDPJ473A	CARBO 47k 1/4W J
R704	R2EDPJ473A	CARBO 47k 1/4W J
R705	R2EDPJ473A	CARBO 47k 1/4W J
R706	R2EDPJ223A	CARBO 22k 1/4W J
R707	R2EDPJ563A	CARBO 56k 1/4W J
R708	R2EDPJ152A	CARBO 1.5k 1/4W J
R709	R2EDPJ100A	CARBO 10 1/4W J
R711	R2EDPJ152A	CARBO 1.5k 1/4W J
R712	R2EDPJ684A	CARBO 680k 1/4W J
R713	R2EDPJ473A	CARBO 47k 1/4W J
R714	R2EDPJ561A	CARBO 560 1/4W J
R715	R2EDPJ561A	CARBO 560 1/4W J
R716	R2EDPJ472A	CARBO 4.7k 1/4W J
R717	R2EDPJ472A	CARBO 4.7k 1/4W J
R718	R2EDPJ683A	CARBO 68k 1/4W J
R719	R2EDPJ330A	CARBO 33 1/4W J
R721	R2EDPJ393A	CARBO 39k 1/4W J
R722	R2EDPJ393A	CARBO 39k 1/4W J
R724	R2EDPJ102A	CARBO 1k 1/4W J
R725	R2EDPJ182A	CARBO 1.8k 1/4W J
R726	R2EDPJ102A	CARBO 1k 1/4W J
R727	R2EDPJ223A	CARBO 22k 1/4W J
R728	R2EDPJ223A	CARBO 22k 1/4W J
R729	R2EDPJ823A	CARBO 82k 1/4W J
R731	R2EDPJ104A	CARBO 100k 1/4W J
R732	R2EDPJ223A	CARBO 22k 1/4W J
R733	R2EDPJ223A	CARBO 22k 1/4W J
R734	R2EDPJ183A	CARBO 18k 1/4W J
R735	R2EDPJ183A	CARBO 18k 1/4W J
R736	R2EDPJ333A	CARBO 33k 1/4W J
R737	R2EDPJ223A	CARBO 22k 1/4W J
R738	R2EDPJ472A	CARBO 4.7k 1/4W J
R739	R2EDPJ123A	CARBO 12k 1/4W J
R741	R2EDPJ223A	CARBO 22k 1/4W J
R742	R2EDPJ104A	CARBO 100k 1/4W J
R743	R2EDPJ183A	CARBO 18k 1/4W J
R744	R2EDPJ102A	CARBO 1k 1/4W J
R745	R2EDPJ103A	CARBO 10k 1/4W J
R746	R2EDPJ152A	CARBO 1.5k 1/4W J
R747	R2EDPJ823A	CARBO 82k 1/4W J
R748	R2EDPJ104A	CARBO 100k 1/4W J
R749	R2EDPJ125A	CARBO 1.2M 1/4W J
R751	R2EDPJ222A	CARBO 2.2k 1/4W J
R752	R2EDPJ334A	CARBO 330k 1/4W J
R753	R2EDPJ223A	CARBO 22k 1/4W J

Schematic Location	Parts No.	Description
R754	R2EDPJ682A	CARBO 6.8k 1/4W J
R755	R2EDPJ272A	CARBO 2.7k 1/4W J
R756	R2EDPJ100A	CARBO 10 1/4W J
R757	R2EDPJ473A	CARBO 47k 1/4W J
R758	R2EDPJ223A	CARBO 22k 1/4W J
R759	R2EDPJ103A	CARBO 10k 1/4W J
R761	R2EDPJ154A	CARBO 150k 1/4W J
R762	R2EDPJ563A	CARBO 56k 1/4W J
R763	R2EDPJ102A	CARBO 1k 1/4W J
R764	R2EDPJ155A	CARBO 1.5M 1/4W J
R765	R2EDPJ332A	CARBO 3.3k 1/4W J
R766	R2EDPJ472A	CARBO 4.7k 1/4W J
R767	R2EDPJ472A	CARBO 4.7k 1/4W J
R768	R2EDPJ473A	CARBO 47k 1/4W J
R769	R2EDPJ392A	CARBO 3.9k 1/4W J
R771	R2EDPJ473A	CARBO 47k 1/4W J
R772	R2EDPJ473A	CARBO 47k 1/4W J
R773	R2EDPJ473A	CARBO 47k 1/4W J
R774	R2EDPJ102A	CARBO 1k 1/4W J
R775	R2EDPJ122A	CARBO 1.2k 1/4W J
R776	R2EDPJ122A	CARBO 1.2k 1/4W J
R777	R2EDPJ682A	CARBO 6.8k 1/4W J
R778	R2EDPJ333A	CARBO 33k 1/4W J
R783	R2EDPJ104A	CARBO 100k 1/4W J
R784	R2EDPJ103A	CARBO 10k 1/4W J
R791	R2EDPJ394A	CARBO 390k 1/4W J
R792	R2EDPJ473A	CARBO 47k 1/4W J
R793	R2EDPJ471A	CARBO 470 1/4W J
R794	R2EDPJ471A	CARBO 470 1/4W J
R795	R2EDPJ472A	CARBO 4.7k 1/4W J
R796	R2EDPJ472A	CARBO 4.7k 1/4W J
R797	R2EDPJ333A	CARBO 33k 1/4W J
R798	R2EDPJ270A	CARBO 27 1/4W J
R799	R2EDPJ474A	CARBO 470k 1/4W J
R801	R2EDPJ473A	CARBO 47k 1/4W J
R802	R2EDPJ473A	CARBO 47k 1/4W J
		(VARIABLE RESISTORS)
VR501	4-2224-00180	SEMI 1kB
VR502	4-2224-00130	SEMI 220kB
VR503	4-2224-00130	SEMI 220kB
VR506	4-2224-00130	SEMI 220kB
VR507	4-2224-00130	SEMI 220kB
VR508	4-2224-00130	SEMI 220kB
VR701	4-2224-00110	SEMI 22kB
VR702	4-2224-00110	SEMI 22kB
VR703	4-2224-00110	SEMI 22kB
VR704	4-2224-00150	SEMI 10kB
VR705	4-2224-00140	SEMI 22kB
VR706	4-2224-00140	SEMI 22kB
VR707	4-2224-00110	SEMI 22kB
VR708	4-2224-00260	SEMI 3.3kB
VR709	4-2224-00260	SEMI 3.3kB
VR713	4-2224-00130	SEMI 220kB
VR714	4-2224-00110	SEMI 22kB
TP501	4-2374-00030	TEST POINT PIN
TP502	4-2374-00030	TEST POINT PIN
TP513	4-2374-00030	TEST POINT PIN
TP515	4-2374-00030	TEST POINT PIN
TP516	4-2374-00030	TEST POINT PIN
TP517	4-2374-00030	TEST POINT PIN
TP703	4-2374-00030	TEST POINT PIN
TP704	4-2374-00030	TEST POINT PIN
TP705	4-2374-00030	TEST POINT PIN
TP706	4-2374-00030	TEST POINT PIN
TP707	4-2374-00030	TEST POINT PIN
TP710	4-2374-00030	TEST POINT PIN

Schematic Location	Parts No.	Description
TP711	4-2374-00030	TEST POINT PIN
TP712	4-2374-00030	TEST POINT PIN
TP714	4-2374-00030	TEST POINT PIN
X701	4-2254-00020	32.768kHz CRYSTAL
or	4-2254-00021	32.768kHz CRYSTAL
or	4-2254-00022	32.768kHz CRYSTAL
		(ZENER DIODES)
ZD501	DGGZA6.2-X	ZE DIODE GZA6.2(X)or(Y)
ZD502	DGGZA10-Y	ZE DIODE GZA10(Y)
ZD503	DGGZA5.6-Y	ZE DIODE GZA5.6(Y)
ZD504	DGGZA10-Y	ZE DIODE GZA10(Y)
ZD505	DGGZA13-X	ZE DIODE GZA13(X)
ZD506	DGGZA6.2-Y	ZE DIODE GZA6.2(Y)
ZD507	DGGZA10-Y	ZE DIODE GZA10(Y)
ZD508	DGGZA10-Y	ZE DIODE GZA10(Y)

SYSTEM CONTROL DRIVE P.C.B. PARTS

Schematic Location	Part No.	Description
	0-4014-00410	SYSCON DRIVE PC ASSY
		(CAPACITORS)
C861	C1EREM107A	ELECT 100μF 25V M
C862	C1HYDK103B	CERAM 0.01μF 50V K
C863	C1CREM476A	ELECT 47μF 16V M
C864	C1HYDK103B	CERAM 0.01μF 50V K
C865	C1HYDK103B	CERAM 0.01μF 50V K
C866	C1CREM476A	ELECT 47μF 16V M
C867	C1HYDK103B	CERAM 0.01μF 50V K
C868	C1CREM226A	ELECT 22μF 16V M
C869	C1EBDK473SP	SEMI 0.047μF 25V K
C871	C1CREM107A	ELECT 100μF 16V M
C872	C1EREM107A	ELECT 100μF 25V M
C873	C1EBDK473SP	SEMI 0.047μF 25V K
C874	C1EBDK473SP	SEMI 0.047μF 25V K
C875	C1EBDK473SP	SEMI 0.047μF 25V K
C876	C1EBDK473SP	SEMI 0.047μF 25V K
C877	C1EBDK473SP	SEMI 0.047μF 25V K
C878	C1EBDK473SP	SEMI 0.047μF 25V K
C879	C1EBDK473SP	SEMI 0.047μF 25V K
C881	C1HYDK152B	CERAM 0.0015μF 50V K
C882	C1HYDK152B	CERAM 0.0015μF 50V K
C883	C1HYDK152B	CERAM 0.0015μF 50V K
C884	C1EREM475A	ELECT 4.7μF 25V M
C885	C1EREM475A	ELECT 4.7μF 25V M
C886	C1EREM475A	ELECT 4.7μF 25V M
		(DIODES)
D861	DFERB12-01	DIODE ERB12-01
or	DGDS135E	DIODE DS135E
D862	DFERB12-01	DIODE ERB12-01
or	DGDS135E	DIODE DS135E
D863	DFERB12-01	DIODE ERB12-01
or	DGDS135E	DIODE DS135E
D864	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D865	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D866	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
IC861	IHHA11714	IC HA 11714
IC862	IHHA11715	IC HA 11715
IC863	IFSANYO 003	HYBRID IC SANYO 003
IC864	IFSANYO 004	HYBRID IC SANYO 004
PV861	4-2364-00070	7P PLUG VERTICAL
PV862	4-2364-00060	6P PLUG VERTICAL
PV863	4-2364-00050	5P PLUG VERTICAL
PV864	4-2364-00020	2P PLUG VERTICAL
PV865	4-2364-00020	2P PLUG VERTICAL
PV866	4-2364-00020	2P PLUG VERTICAL
PV867	4-2364-00020	2P PLUG VERTICAL
PV868	4-2364-00020	2P PLUG VERTICAL
PV869	4-2364-00030	3P PLUG VERTICAL
PV870	4-2364-00020	2P PLUG VERTICAL
PV871	4-2364-00030	3P PLUG VERTICAL
PV872	4-2364-00020	2P PLUG VERTICAL
PV873	4-2364-00020	2P PLUG VERTICAL
PV874	4-2364-00030	3P PLUG VERTICAL
PV875	4-2364-00020	2P PLUG VERTICAL
PV876	4-2364-00020	2P PLUG VERTICAL
PV877	4-2364-00080	8P PLUG VERTICAL
PV878	4-2364-00110	11P PLUG VERTICAL
PV879	4-2364-00050	5P PLUG VERTICAL
PV880	4-2364-00080	8P PLUG VERTICAL
PV881	4-2364-00030	3P PLUG VERTICAL
PV882	4-2364-00030	3P PLUG VERTICAL
		(TRANSISTORS)
Q861	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q862	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q863	TG2SD894	TR 2SD894
Q864	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q865	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
or	TT2SC1627Y	TR 2SC1627(Y)
Q866	TG2SD894	TR 2SD894
Q867	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q868	TG2SD612E	TR 2SD612(E)or(F)
or	TN2SC1449K	TR 2SC1449(K)or(L)
or	TT2SC496Y	TR 2SC496(Y)
Q894	TG2SD313E	TR 2SD313(E)or(F)
		(RESISTORS)
R861	R2EDPJ473A	CARBO 47k 1/4W J
R862	R2EDPJ104A	CARBO 100 1/4W J
R863	R2EDPJ102A	CARBO 1k 1/4W J
R864	R2EDPJ102A	CARBO 1k 1/4W J
R865	R2EDPJ333A	CARBO 33k 1/4W J
R866	R2EDPJ683A	CARBO 68k 1/4W J
R867	R2EDPJ561A	CARBO 560 1/4W J
R868	R2EDPJ473A	CARBO 47k 1/4W J
R869	R2EDPJ104A	CARBO 100k 1/4W J
R871	R2EDPJ102A	CARBO 1k 1/4W J
R872	R2EDPJ102A	CARBO 1k 1/4W J
R873	R2EDPJ333A	CARBO 33k 1/4W J
R874 ⚠	R3WXPJ330A	OMF 33 3W J
R875	R2EDPJ683A	CARBO 68k 1/4W J
R876	R2EDPJ561A	CARBO 560 1/4W J
R878	R2EDPJ223A	CARBO 22k 1/4W J
R879	R2EDPJ225A	CARBO 2.2M 1/4W J
R881	R2EDPJ100A	CARBO 10 1/4W J
R882	R2EDPJ100A	CARBO 10 1/4W J
R883	R2EDPJ100A	CARBO 10 1/4W J
R884	R2HNPKR47A	METAL 0.47 1/2W K
R885	R2EDPJ183A	CARBO 18k 1/4W J
R886	R2EDPJ101A	CARBO 100 1/4W J

TUNER RF CONVERTER AND PRESET P.C.B PARTS

Schematic Location	Parts No.	Description
	4-1154-00030	TUNER IF UNIT
	4-1164-00060	RF CONVERTER
	0-4014-00530	PRESET PC ASSY
		(DIODES)
D2501	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D2502	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D2503	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
		(TRANSISTORS)
Q2501	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q2502	TG2SC2274E	TR 2SC2274(E)or(F)
		(RESISTORS)
R2501	R2EDPJ333A	CARBO 33k 1/4W J
R2502	R2EDPJ332A	CARBO 3.3k 1/4W J
R2503	R2EDPJ103A	CARBO 10k 1/4W J
TP251	4-2374-00030	TEST POINT PIN
TP252	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTOR)
VR251	4-2224-00220	SEMI 1kB
	0-4014-00311	PRESET PC ASSY
	4-2224-00370	8CH PRESET UNIT
		(CAPACITORS)
C001	C1HREM225A	ELECT 2.2μF 50V M
C002	C1HREM226A	ELECT 22μF 50V M
C003	C1HYDK103B	CERAM 0.01μF 50V K
C004	C1HREM106A	ELECT 10μF 50V M
C005	C1HYDK103B	CERAM 0.01μF 50V K
C006	C1HFRK104A	MYLAR 0.1μF 50V K
C007	C1HYDK103B	CERAM 0.01μF 50V K
C008	C0JDFM011T	ELECT 470μF 6.3V M
		(DIODES)
D001	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D002	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D003	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D004	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D005	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D006	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D007	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D008	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D017	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D018	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D019	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A
D020	DGDS442X	DIODE DS442X
or	DH1S2076A	DIODE 1S2076A

Schematic Location	Parts No.	Description
PH001	4-2364-00071	7P PLUG HORIZONTALLY
PH002	4-2364-00081	8P PLUG HORIZONTALLY
PH003	4-2364-00031	3P PLUG HORIZONTALLY
PH004	4-2364-00031	3P PLUG HORIZONTALLY
PH005	4-2364-00091	9P PLUG HORIZONTALLY
PH006	4-2364-00031	3P PLUG HORIZONTALLY
		(TRANSISTORS)
Q001	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
Q002	TG2SA984KE	TR 2SA984K(E)or(F)
Q003	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
Q004	TG2SC536NPF	TR 2SC536(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q005	TG2SA984E	TR 2SA984(E)or(F)
or	TN2SA953K	TR 2SA953(K)or(L)
Q006	TG2SC536NPF	TR 2SC536(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q007	TG2SC536NPF	TR 2SC536(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
		(RESISTORS)
R001	R2EDPJ474A	CARBO 470k 1/4W J
R002	R2EDPJ473A	CARBO 47k 1/4W J
R003	R2EDPJ123A	CARBO 12k 1/4W J
R004	R2EDPJ181A	CARBO 180 1/4W J
R005	R2EDPJ561A	CARBO 560 1/4W J
R006	R2EDPJ102A	CARBO 1k 1/4W J
R007	R2EDPJ182A	CARBO 1.8k 1/4W J
R008	R2EDPJ102A	CARBO 1k 1/4W J
R009	R2EDPJ103A	CARBO 10k 1/4W J
R011	R2EDPJ333A	CARBO 33k 1/4W J
R012	R2EDPJ821A	CARBO 820 1/4W J
R013	R2EDPJ105A	CARBO 1M 1/4W J
R014	R2EDPJ563A	CARBO 56k 1/4W J
R015	R2EDPJ273A	CARBO 27k 1/4W J
R016	R2EDPJ333A	CARBO 33k 1/4W J
R017	R2EDPJ472A	CARBO 4.7k 1/4W J
R019	R2EDPJ103A	CARBO 10k 1/4W J
SW002	4-2314-00020	MICRO SW
TF001	4-2374-00030	TEST POINT PIN
TP002	4-2374-00030	TEST POINT PIN
TP003	4-2374-00030	TEST POINT PIN
TP004	4-2374-00030	TEST POINT PIN
TP005	4-2374-00030	TEST POINT PIN
		(ZENER DIODES)
ZD001	DNMPC574J	ZE DIODE MPC574J
ZD002	DFEQA02-35B	ZE DIODE EQA02-35B
or	DGGZA36-Y	ZE DIODE GZA36-Y
or	DNRD39E-B1	ZE DIODE RD39E-B1
ZD003	DFEQA02-06A	ZE DIODE EQA02-06A
or	DGGZA5.6-Y	ZE DIODE GZA5.6-Y
or	DNRD5.6E-B2	ZE DIODE RD5.6E-B2
	0-4014-00500	CH SELECT PC ASSY
		(DIODES)
D040	DYSLR-55MC	LED SLR-55MC
D041	DYSLR-55MC	LED SLR-55MC
D042	DYSLR-55MC	LED SLR-55MC
D043	DYSLR-55MC	LED SLR-55MC

Schematic Location	Part No.	Description
D044	DYSLR-55MC	LED SLR-55MC
D045	DYSLR-55MC	LED SLR-55MC
D046	DYSLR-55MC	LED SLR-55MC
D047	DYSLR-55MC	LED SLR-55MC
PV001	4-2364-00110	11P PLUG VERTICAL
SW001	4-2224-00370	8CH PUSH SW

TIMER P.C.B PARTS

Schematic Location	Part No.	Description
	0-4014-00030	TIMER A PC ASSY
BR101	4-2214-00010	BLOCK RESIST 100kx7
or	4-2214-00011	BLOCK RESIST 100kx7
BR102	4-2214-00010	BLOCK RESIST 100kx7
or	4-2214-00011	BLOCK RESIST 100kx7
		(DIODES)
D101	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D102	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D103	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D104	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D105	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D106	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D107	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D108	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
FL101	4-2154-00010	DIGTRON
IC101	ITTC5066BP	IC TC 5066BP
IC102	ITTC5066BP	IC TC 5066BP
SW101	4-2314-00030	KEY BOARD SW
SW102	4-2314-00030	KEY BOARD SW
SW103	4-2314-00030	KEY BOARD SW
SW104	4-2314-00030	KEY BOARD SW
SW105	4-2314-00030	KEY BOARD SW
SW106	4-2314-00030	KEY BOARD SW
SW107	4-2314-00030	KEY BOARD SW
SW108	4-2314-00030	KEY BOARD SW
	4-2374-00030	TEST POINT PIN
	4-2374-00030	TEST POINT PIN
TP101		
TP102	0-4014-00450	TIMER B PC ASSY
BR103	4-2214-00010	BLOCK RESIST 100kx7
or	4-2214-00011	BLOCK RESIST 100kx7
BR104	4-2214-00010	BLOCK RESIST 100kx7
or	4-2214-00011	BLOCK RESIST 100kx7
		(CAPACITORS)
C101	C1HYDZ223F	CERAM 0.022μF 50V Z
C102	C1JREM106A	ELECT 10μF 63V M
C103	C1HREM107A	ELECT 100μF 50V M
C104	C1HFRK103A	MYLAR 0.01μF 50V K

Schematic Location	Part No.	Description
C105	C1HFRK472A	MYLAR 0.0047μF 50V K
C106	C1HYDK103B	CERAM 0.01μF 50V K
C107	C1HCDJ221SL	CERAM 220pF 50V J
C108	C1HFRK104A	MYLAR 0.1μF 50V K
C109	C1HYDK103B	CERAM 0.01μF 50V K
C111	C1HYDK103B	CERAM 0.01μF 50V K
C112	C1HCDJ151SL	CERAM 150pF 50V J
C113	C1HCDJ470SL	CERAM 47pF 50V J
C114	C1CREM107A	ELECT 100μF 16V M
C115	C1HREM105A	ELECT 1μF 50V M
C116	C1CREM477A	ELECT 470μF 16V M
CR101	4-2584-00020	CERAMIC RESONATOR
		(DIODES)
D109	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D110	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D111	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D112	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D113	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D114	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D115	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
DA101	4-1914-00010	DC-AC CONVERTER
IC103	INMPD4093BC	IC MPD 4093BC
IC103	ITTC4093BP	IC TC 4093BP
IC104	IISPT2300L02	IC SPT 2300L02
IC105	IITMS1024NHL	IC TMS 1024NHL
PV101	4-2364-00040	4P PLUG VERTICAL
PV102	4-2364-00030	3P PLUG VERTICAL
PV103	4-2364-00030	3P PLUG VERTICAL
PV104	4-2364-00070	7P PLUG VERTICAL
PV105	4-2364-00080	8P PLUG VERTICAL
PV106	4-2364-00050	5P PLUG VERTICAL
PV107	4-2364-00080	8P PLUG VERTICAL
PV108	4-2364-00020	2P PLUG VERTICAL
PV109	4-2364-00100	10P PLUG VERTICAL
PV110	4-2364-00040	4P PLUG VERTICAL
PV111	4-2364-00020	2P PLUG VERTICAL
		(TRANSISTORS)
Q101	TG2SB560E	TR 2SB560(E)or(F)
or	TT2SA965Y	TR 2SA965(Y)
Q102	TG2SA984E	TR 2SA984(E)or(F)
or	TN2SA953K	TR 2SA953(K)or(L)
Q103	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q104	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
Q105	TG2SC536NPF	TR 2SC536NP(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
		(RESISTORS)
R101	R2HDPJ152A	CARBO 1.5k 1/2W J
R102	R2EDPJ222A	CARBO 2.2k 1/4W J
R103	R2EDPJ184A	CARBO 180k 1/4W J
R104	R2EDPJ184A	CARBO 180k 1/4W J

Schematic Location	Part No.	Description
R105	R2EDPJ103A	CARBO 10k 1/4W J
R106	R2EDPJ333A	CARBO 33k 1/4W J
R107	R2EDPJ331A	CARBO 330 1/4W J
R108	R2EDPJ333A	CARBO 33k 1/4W J
R109	R2EDPJ102A	CARBO 1k 1/4W J
R110	R2EDPJ102A	CARBO 1k 1/4W J
R111	R2EDPJ103A	CARBO 10k 1/4W J
R112	R2EDPJ102A	CARBO 1k 1/4W J
R113	R2EDPJ333A	CARBO 33k 1/4W J
R114	R2EDPJ103A	CARBO 10k 1/4W J
R115	R2EDPJ563A	CARBO 56k 1/4W J
R116	R2EDPJ332A	CARBO 3.3k 1/4W J
R117	R2EDPJ102A	CARBO 1k 1/4W J
R118	R2EDPJ102A	CARBO 1k 1/4W J
R119	R2EDPJ333A	CARBO 33k 1/4W J
R120	R2EDPJ224A	CARBO 220k 1/4W J
R121	R2EDPJ104A	CARBO 100k 1/4W J
R122	R2EDPJ152A	CARBO 1.5k 1/4W J
R123	R2EDPJ473A	CARBO 47k 1/4W J
R124	R2EDPJ103A	CARBO 10k 1/4W J
R125	R2EDPJ103A	CARBO 10k 1/4W J
R126	R2EDPJ103A	CARBO 10k 1/4W J
R127	R2EDPJ103A	CARBO 10k 1/4W J
R128	R2EDPJ561A	CARBO 560 1/4W J
R131	R2EDPJ100A	CARBO 10 1/4W J
		(ZENER DIODES)
ZD101	DFEQA02-23A	ZE DIODE EQA02-23A
or	DGGZA22-Z	ZE DIODE GZA22-Z
or	DNRD24E-B2	ZE DIODE RD24E-B2
ZD102		ZE DIODE EQA02-08D
or		ZE DIODE GZA8.2-Y
or		ZE DIODE RD8.2E-B3
ZD103	DFEQA02-06	ZE DIODE EQA02-06
or	DGGZA6.2	ZE DIODE GZA6.2
or	DNRD6.2L	ZE DIODE RD6.2L
0110	0-4014-00090	COUNTER PC ASSY
	143-2-5604-00500	SPACER HALL IC
IC106	IMDN6838	HOLE IC
PI101	DMON1128	PH INTERRUPTER
PI102	DMON1128	PH INTERRUPTER

KEY FUNCTION P.C.B PARTS

Schematic Location	Part No.	Description
	0-4014-00400	KEY FUNCTION PC ASSY
	143-2-5604-00200	SPACER LED-A
	143-2-5604-00300	SPACER LED-B
BR651	4-2214-00030	SANYO 001 BLOCK R
BR651	4-2214-00031	SANYO 001 BLOCK R
BR651	4-2214-00032	SANYO 001 BLOCK R
		(CAPACITORS)
C651	C1CGEM226A	ELECT 22μF 16V M
C652	C1EBDK473SP	SEMI 0.047μF 25V K
		(DIODES)
D651	DYSLR-54UR	LED SLR-54UR
D652	DYSLR-54UR	LED SLR-54UR
D654	DYSLR-54UR	LED SLR-54UR
D655	DYSLR-54UR	LED SLR-54UR
D656	DYSLR-54UR	LED SLR-54UR
D657	DYSLR-54UR	LED SLR-54UR
D658	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D659	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D661	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
PV651	4-2364-00030	3P PLUG VERTICAL
PV652	4-2364-00070	7P PLUG VERTICAL
PV653	4-2364-00060	6P PLUG VERTICAL
PV655	4-2364-00100	10P PLUG VERTICAL
		(RESISTORS)
R671	R2EDPJ152A	CARBO 1.5k 1/4W J
R672	R2EDPJ152A	CARBO 1.5k 1/4W J
R674	R2EDPJ152A	CARBO 1.5k 1/4W J
R675	R2EDPJ152A	CARBO 1.5k 1/4W J
R676	R2EDPJ152A	CARBO 1.5k 1/4W J
R677	R2EDPJ103A	CARBO 10k 1/4W J
R678	R2EDPJ223A	CARBO 22k 1/4W J
R679	R2EDPJ104A	CARBO 100k 1/4W J
R681	R2EDPJ104A	CARBO 100k 1/4W J
R682	R2EDPJ103A	CARBO 10k 1/4W J
R683	R2EDPJ153A	CARBO 15k 1/4W J
R684	R2EDPJ473A	CARBO 47k 1/4W J
R685	R2EDPJ101A	CARBO 100 1/4W J
R686	R2EDPJ562A	CARBO 5.6k 1/4W J
R687	R2EDPJ104A	CARBO 100k 1/4W J
S651	4-2314-00040	1KEY PUSH SW
S652	4-2314-00040	1KEY PUSH SW
S653	4-2314-00030	KEY BOARD SW
S654	4-2314-00030	KEY BOARD SW
S655	4-2314-00030	KEY BOARD SW
S656	4-2314-00030	KEY BOARD SW
S657	4-2314-00030	KEY BOARD SW
S658	4-2314-00030	KEY BOARD SW
S663	4-2314-00030	KEY BOARD SW
S664	4-2314-00030	KEY BOARD SW
		(ZENER DIODES)
ZD651	DFEQA02-05C	ZE DIODE EQA02-05C
or	DFEQA02-05D	ZE DIODE EQA02-05D
or	DGGZA5.1-X	ZE DIODE GZA5.1-X
or	DGGZA5.1-Y	ZE DIODE GZA5.1-Y
or	DNRD5.1E-B3	ZE DIODE RD5.1E-B3
ZD652	DFEQA02-10B	ZE DIODE EQA02-10B
or	DGGZA10-Y	ZE DIODE GZA10-Y
or	DNRD10E-B3	ZE DIODE RD10E-B3

POWER CIRCUIT P.C.B PARTS

Schematic Location	Part No.	Description
	0-4054-00050	POWER CORD ASSY UK
		(TRANSISTORS)
Q009	TG2SD313E	TR 2SD313(E)or(F)
Q901	TG2SD613E	TR 2SD613(E)
	0-4014-00420	POWER A PC ASSY
	0-4030-00010	1P CORD ASSY A
	4-2354-00210	FUSE CLIP
	103-3-1903-00811	SCREW BRAZIER HD TAPPING +M3×8
	143-2-7904-00300	RAD PLATE 03

Schematic Location	Part No.	Description
		(CAPACITORS)
C902	C1HYDZ472F	CERAM 0.0047µF 50V Z
C903	C1HYDZ472F	CERAM 0.0047µF 50V Z
C904	C1HYDZ472F	CERAM 0.0047µF 50V Z
C905	C1HYDZ472F	CERAM 0.0047µF 50V Z
C906	C1VDGM001T	ELECT 3300µF 35V M
C907	C1HYDZ103F	CERAM 0.01µF 50V Z
C908	C1HYDZ103F	CERAM 0.01µF 50V Z
C909	C1VREM106A	ELECT 10µF 35V M
C910	C1EREM107A	ELECT 100µF 25V M
C911	C1AREM476A	ELECT 47µF 10V M
C912	C2HYDK471B	CERAM 470pF 500V K
C913	C1JREM227A	ELECT 220µF 63V M
C914	C2HYDK471B	CERAM 470pF 500V K
C915	C1JREM227A	ELECT 220µF 63V M
C916	C1HYDZ472F	CERAM 0.0047µF 50V Z
C917	C1HYDZ472F	CERAM 0.0047µF 50V Z
C918	C1CREM336A	ELECT 33µF 16V M
C919	C1CREM336A	ELECT 33µF 16V M
C920	C1CREM336A	ELECT 33µF 16V M
C921	C1EREM107A	ELECT 100µF 25V M
C922	C1HYDZ223F	CERAM 0.022µF 50V Z
C923	C1EREM476A	ELECT 47µF 25V M
C924	C1CREM336A	ELECT 33µF 16V M
C925	C1HYDZ103F	CERAM 0.01µF 50V Z
		(DIODES)
D901	DGGSA30C	DIODE GSA30C
D902	DGGSA30C	DIODE GSA30C
D903	DGGSA30C	DIODE GSA30C
D904	DGGSA30C	DIODE GSA30C
D905	DGDS442	DIODE DS442
or	DH1S2076	DIODE 1S2076
D906	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
D907	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
D908	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
D909	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
F902 ⚠	4-2344-00080	FUSE T3.15A SEMKO
F903 ⚠	4-2344-00050	FUSE T100MA SEMKO
F904 ⚠	4-2344-00060	FUSE T160MA SEMKO
F905 ⚠	4-2344-00060	FUSE T160MA SEMKO
PV901	4-2364-00030	3P PLUG VERTICAL
PV902	4-2364-00040	4P PLUG VERTICAL
PV903	4-2364-00040	4P PLUG VERTICAL
PV904	4-2364-00030	3P PLUG VERTICAL
PV905	4-2364-00120	6P PLUG VERTICAL
PV907	4-2364-00030	3P PLUG VERTICAL
PV908	4-2364-00020	2P PLUG VERTICAL
PV909	4-2364-00030	3P PLUG VERTICAL
PV910	4-2364-00020	2P PLUG VERTICAL
PV911	4-2364-00020	2P PLUG VERTICAL
		(TRANSISTORS)
Q902	TG2SC2274E	TR 2SC2274(E)or(F)
or	TN2SC2002L	TR 2SC2002(L)or(M)
Q903	TG2SC536NPF	TR 2SC536(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q904	TG2SD313E	TR 2SD313(E)or(F)
Q905	TG2SC536NPF	TR 2SC536(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)

Schematic Location	Part No.	Description
Q906	TG2SD1111	TR 2SD1111
Q907	TG2SC536NPF	TR 2SC536(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q908	TG2SC536NPF	TR 2SC536(F)or(G)
or	TN2SC945K	TR 2SC945(K)or(P)
or	TT2SC1815G	TR 2SC1815(G)or(Y)
Q909	TG2SB698F	TR 2SB698(F)or(G)
		(RESISTORS)
R902	R2EDPJ221A	CARBO 220 1/4W J
R903	R2EDPJ332A	CARBO 3.3k 1/4W J
R904	R2EDPJ103A	CARBO 10k 1/4W J
R905	R2EDPJ473A	CARBO 47k 1/4W J
R906	R2EDPJ102A	CARBO 1k 1/4W J
R907	R2EDPJ104A	CARBO 100k 1/4W J
R908	R2EDPJ561A	CARBO 560 1/4W J
R909	R2EDPJ222A	CARBO 2.2k 1/4W J
R910	R2EDPJ332A	CARBO 3.3k 1/4W J
R911	R2EDPJ473A	CARBO 47k 1/4W J
R912	R2EDPJ103A	CARBO 10k 1/4W J
R913	R2EDPJ152A	CARBO 1.5k 1/4W J
TP901	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTOR)
VR901	4-2224-00270	SEMI 1kB
		(ZENER DIODES)
ZD901	DFEQA02-16A	ZE DIODE EQA02-16A
or	DGGZA16-Y	ZE DIODE GZA16-Y
or	DNRD16E-B3	ZE DIODE RD16E-B3
ZD902	DFEQA02-10C	ZE DIODE EQA02-10C
or	DGGZA10-Z	ZE DIODE GZA10-Z
or	DNRD11E-B1	ZE DIODE RD11E-B1
ZD903	DFEQA02-06C	ZE DIODE EQA02-06C
or	DFEQA02-06D	ZE DIODE EQA02-06D
or	DGGZA6.2-X	ZE DIODE GZA6.2-X
or	DGGZA6.2-Y	ZE DIODE GZA6.2-Y
	0-4014-00430	POWER B PC ASSY
	4-2354-00210	FUSE CLIP
		(CAPACITOR)
C901 ⚠	C2EMRM472A-S	MYLAR 0.0047µF 250V
F901 ⚠	4-2344-00070	FUSE T500MA SEMKO
⚠	0-4054-00050	POWER CORD ASSY UK
T901 ⚠	4-2514-00090	POWER TRANSFORMER
		(CAPACITORS)
C931	C1EDFM004T	ELECT 10000µF 25V M
or	C1EDFM005T	ELECT 10000µF 25V M

MISCELLANEOUS

Schematic Location	Parts No.	Description
	4-2354-00020	2P SOCKET
	4-2354-00030	3P SOCKET
	4-2354-00040	4P SOCKET
	4-2354-00050	5P SOCKET
	4-2354-00060	6P SOCKET
	4-2354-00070	7P SOCKET
	4-2354-00080	8P SOCKET
	4-2354-00090	9P SOCKET
	4-2354-00100	10P SOCKET
	4-2354-00110	11P SOCKET
	4-2354-00120	RECEPTACLE

Printed in Japan '82/Aug WM-8437

VTR 1000

CIRCUIT DIAGRAM & PRINTED CIRCUIT BOARD

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SYSTEM CONTROL DRIVE DIAGRAM............................... Ⓘ
SYSTEM CONTROL DRIVE P.C.B................................. Ⓙ
TUNER RF CONVERTER AND PRESET DIAGRAM...................... Ⓚ
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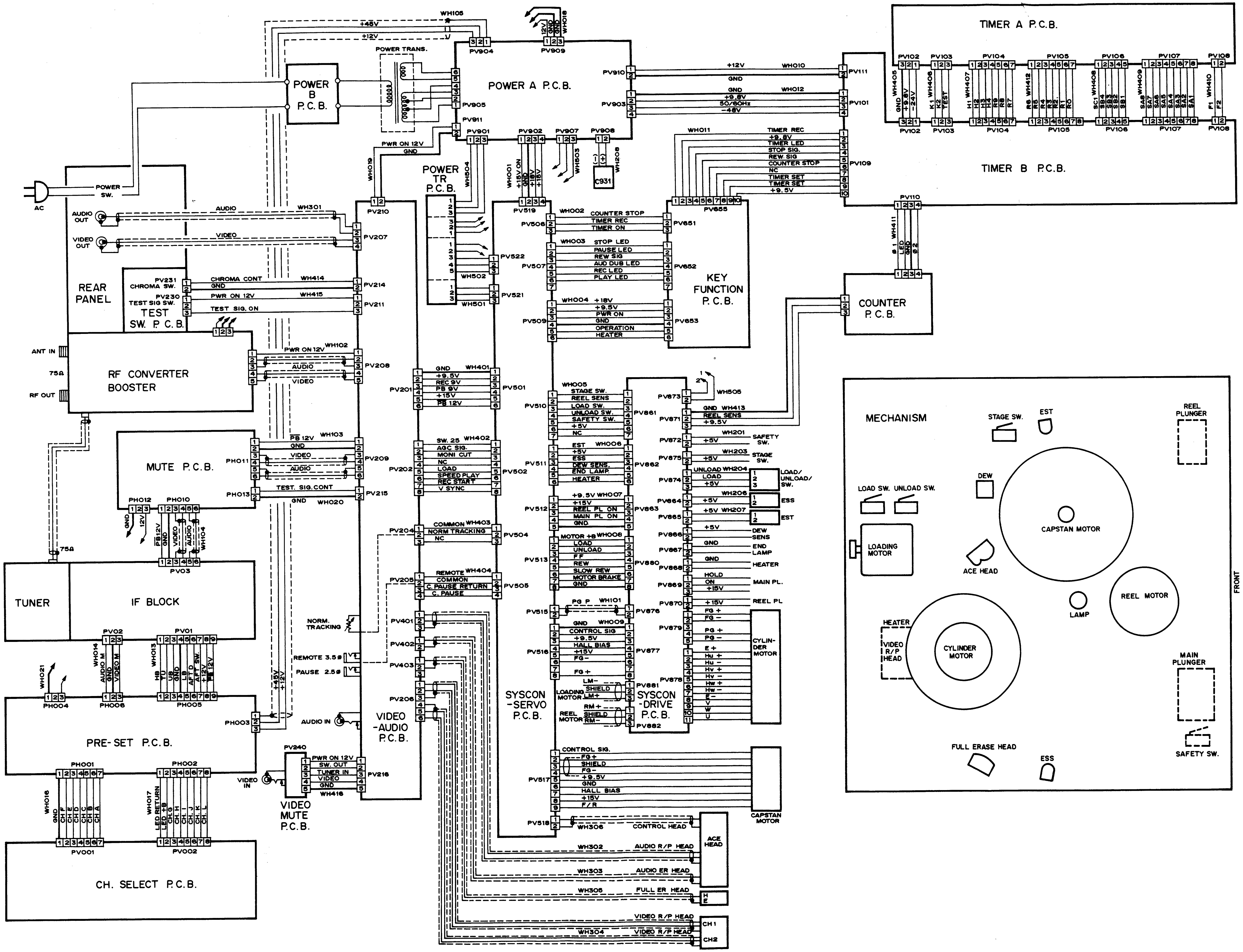
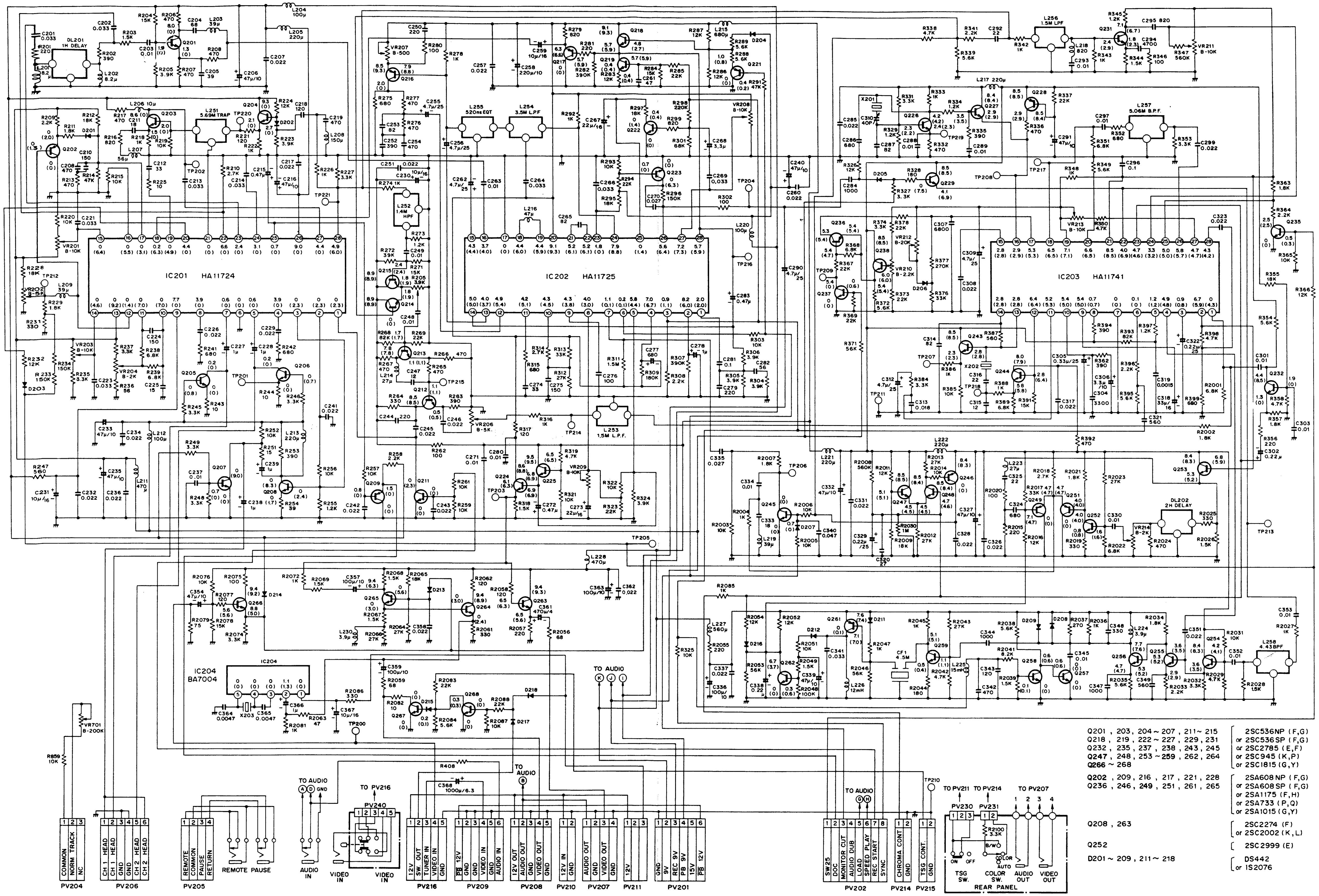
TIMER DIAGRAM.. Ⓜ
TIMER P.C.B.. Ⓝ
KEY FUNCTION DIAGRAM....................................... Ⓞ
KEY FUNCTION P.C.B... Ⓟ
POWER CIRCUIT DIAGRAM...................................... Ⓠ
POWER CIRCUIT P.C.B.. Ⓡ

OVER ALL WIRING DIAGRAM


TIMER A P.C.B.
TIMER B P.C.B.
POWER A P.C.B.
POWER B P.C.B.
POWER TRANS.
POWER TR P.C.B.
REAR PANEL
TEST SW. P.C.B.
RF CONVERTER BOOSTER
MUTE P.C.B.
TUNER
IF BLOCK
PRE-SET P.C.B.
CH. SELECT P.C.B.
VIDEO MUTE P.C.B.
VIDEO -AUDIO P.C.B.
SYSCON -SERVO P.C.B.
SYSCON -DRIVE P.C.B.
KEY FUNCTION P.C.B.
COUNTER P.C.B.
MECHANISM
STAGE SW.
EST
REEL PLUNGER
LOAD SW.
UNLOAD SW.
DEW
CAPSTAN MOTOR
LOADING MOTOR
ACE HEAD
REEL MOTOR
LAMP
HEATER
VIDEO R/P HEAD
CYLINDER MOTOR
MAIN PLUNGER
FULL ERASE HEAD
ESS
SAFETY SW.
FRONT
CYLINDER MOTOR
CAPSTAN MOTOR
ACE HEAD
CONTROL HEAD
AUDIO R/P HEAD
AUDIO ER HEAD
FULL ER HEAD
VIDEO R/P HEAD
CH1
CH2
AC
POWER SW.
AUDIO OUT
VIDEO OUT
ANT IN
RF OUT
AUDIO IN
VIDEO IN
NORM. TRACKING
REMOTE 3.5φ
PAUSE 2.5φ
C931

VIDEO CIRCUIT DIAGRAM


IC201 HA11724
IC202 HA11725
IC203 HA11741
IC204 BA7004
DL201 1H DELAY
DL202 2H DELAY
L251 5.69M TRAP
L252 1.4M HPF
L253 1.5M L.P.F.
L254 3.5M LPF
L255 520ns EQT
L256 1.5M LPF
L257 5.06M B.P.F.
L258 4.43BPF
TO AUDIO
TO PV216
PV240
TO PV211
TO PV214
TO PV207
PV230
PV231
COMMON
NORM TRACK
NC
PV204
CH 1 HEAD
CH 1 HEAD
GND
GND
CH 2 HEAD
CH 2 HEAD
PV206
REMOTE
COMMON
PAUSE
RETURN
REMOTE PAUSE
PV205
AUDIO IN
VIDEO IN
VIDEO IN
12V
SW. OUT
TUNER IN
VIDEO IN
GND
PV216
PB 12V
GND
GND
VIDEO IN
GND
AUDIO IN
PV209
12V OUT
AUDIO OUT
GND
VIDEO OUT
GND
PV208
12V IN
GND
PV210
AUDIO OUT
GND
VIDEO OUT
GND
PV207
12V
PV211
GND
9V
REC 9V
PB 9V
15V
PB 12V
PV201
SW 25
DOC
MONITOR CUT
AUDIO DUB
LOAD
SPEED PLAY
REC START
SYNC
PV202
CHROMA CONT
GND
PV214
TSG CONT.
GND
PV215
TSG SW.
ON
OFF
COLOR SW.
B/W
COLOR
AUTO
AUDIO OUT
VIDEO OUT
REAR PANEL

Q201 , 203, 204 ~ 207 , 211 ~ 215 Q218 , 219 , 222 ~ 227 , 229 , 231 Q232 , 235 , 237 , 238 , 243 , 245 Q247 , 248 , 253 ~ 259 , 262 , 264 Q266 ~ 268	2SC536NP (F,G) or 2SC536SP (F,G) or 2SC2785 (E,F) or 2SC945 (K,P) or 2SC1815 (G,Y)
Q202 , 209 , 216 , 217 , 221 , 228 Q236 , 246 , 249 , 251 , 261 , 265	2SA608NP (F,G) or 2SA608SP (F,G) or 2SA1175 (F,H) or 2SA733 (P,Q) or 2SA1015 (G,Y)
Q208 , 263	2SC2274 (F) or 2SC2002 (K,L)
Q252	2SC2999 (E)
D201 ~ 209 , 211 ~ 218	DS442 or 1S2076

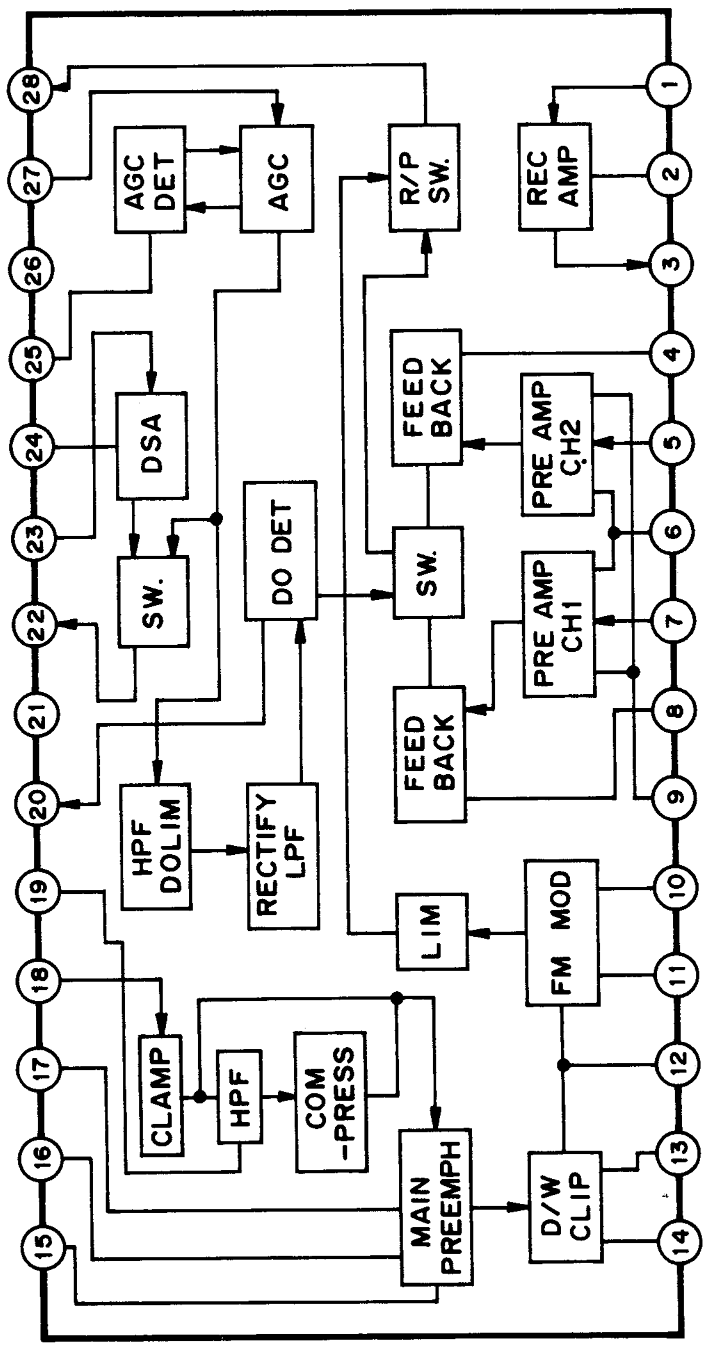
NOTES:
All voltage are in PLAY mode unless otherwise noted.
( ):RECORD mode

NOTES:
1. All resistance values in "OHMS" unless otherwise noted.(K=1,000 M=1,000,000)
2. All inductance values in "mH" unless otherwise noted.μ=micro henry.

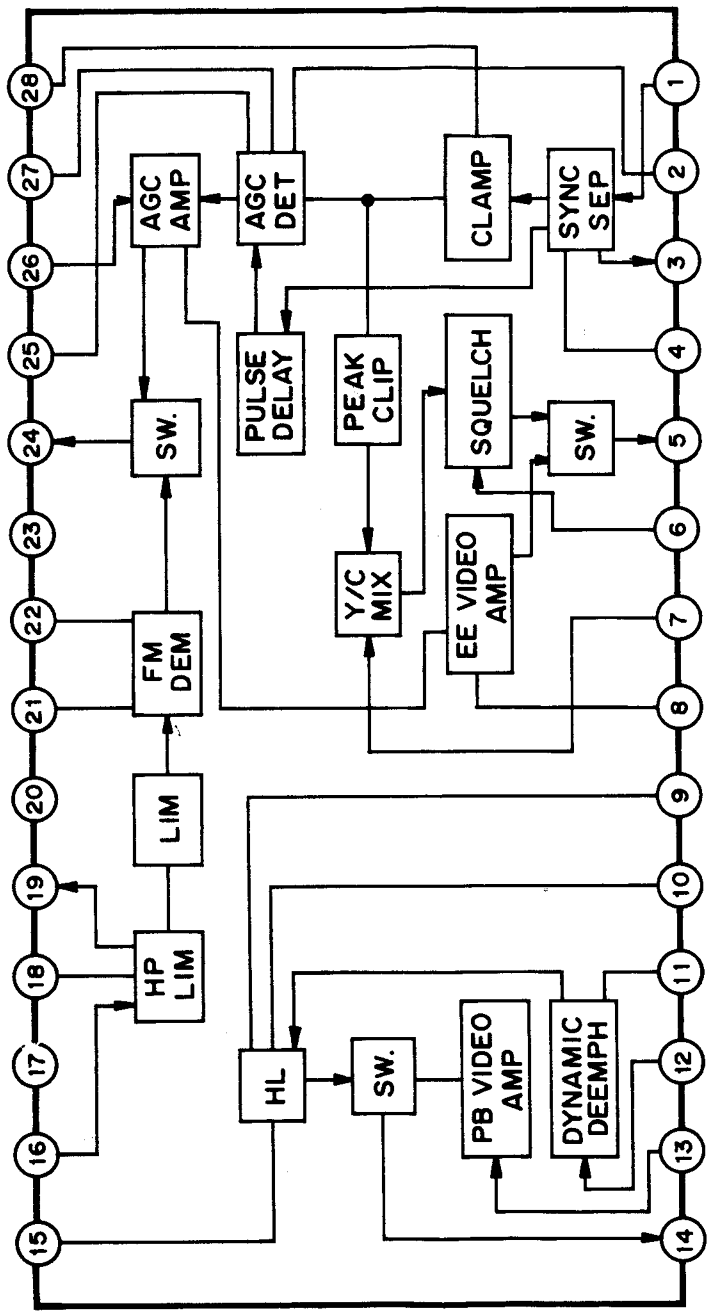
Ⓑ

VIDEO CIRCUIT IC BLOCK DIAGRAM

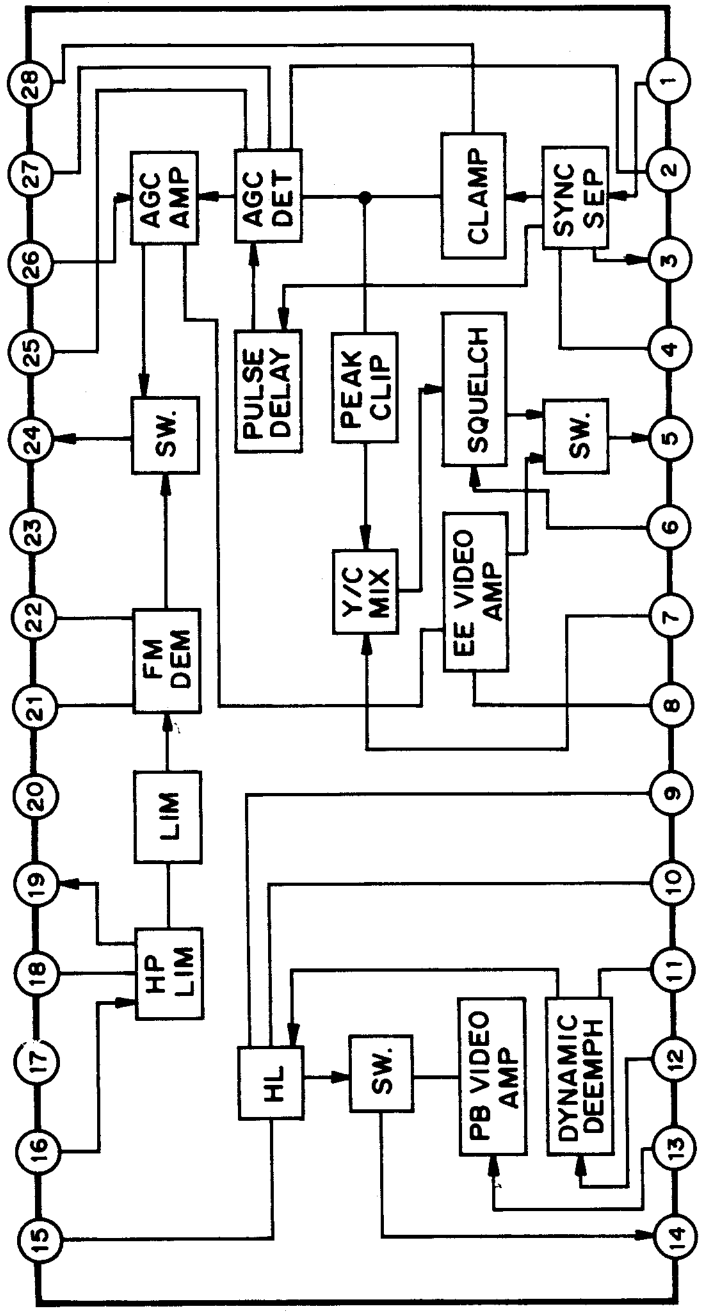
IC201 HA11724


AGC DET
AGC
R/P SW.
REC AMP
DSA
SW.
DO DET
SW.
FEED BACK
PRE AMP CH2
PRE AMP CH1
FEED BACK
HPF DOLIM
RECTIFY LPF
LIM
FM MOD
CLAMP
HPF
COM -PRESS
MAIN PREEMPH
D/W CLIP

IC202 HA11725


AGC AMP
AGC DET
CLAMP
SYNC SEP
PULSE DELAY
PEAK CLIP
SQUELCH
SW.
SW.
Y/C MIX
EE VIDEO AMP
FM DEM
LIM
HP LIM
HL
SW.
PB VIDEO AMP
DYNAMIC DEEMPH

IC202 HA11725


AGC AMP
AGC DET
CLAMP
SYNC SEP
PULSE DELAY
PEAK CLIP
SQUELCH
SW.
SW.
Y/C MIX
EE VIDEO AMP
FM DEM
LIM
HP LIM
HL
SW.
PB VIDEO AMP
DYNAMIC DEEMPH
1
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3
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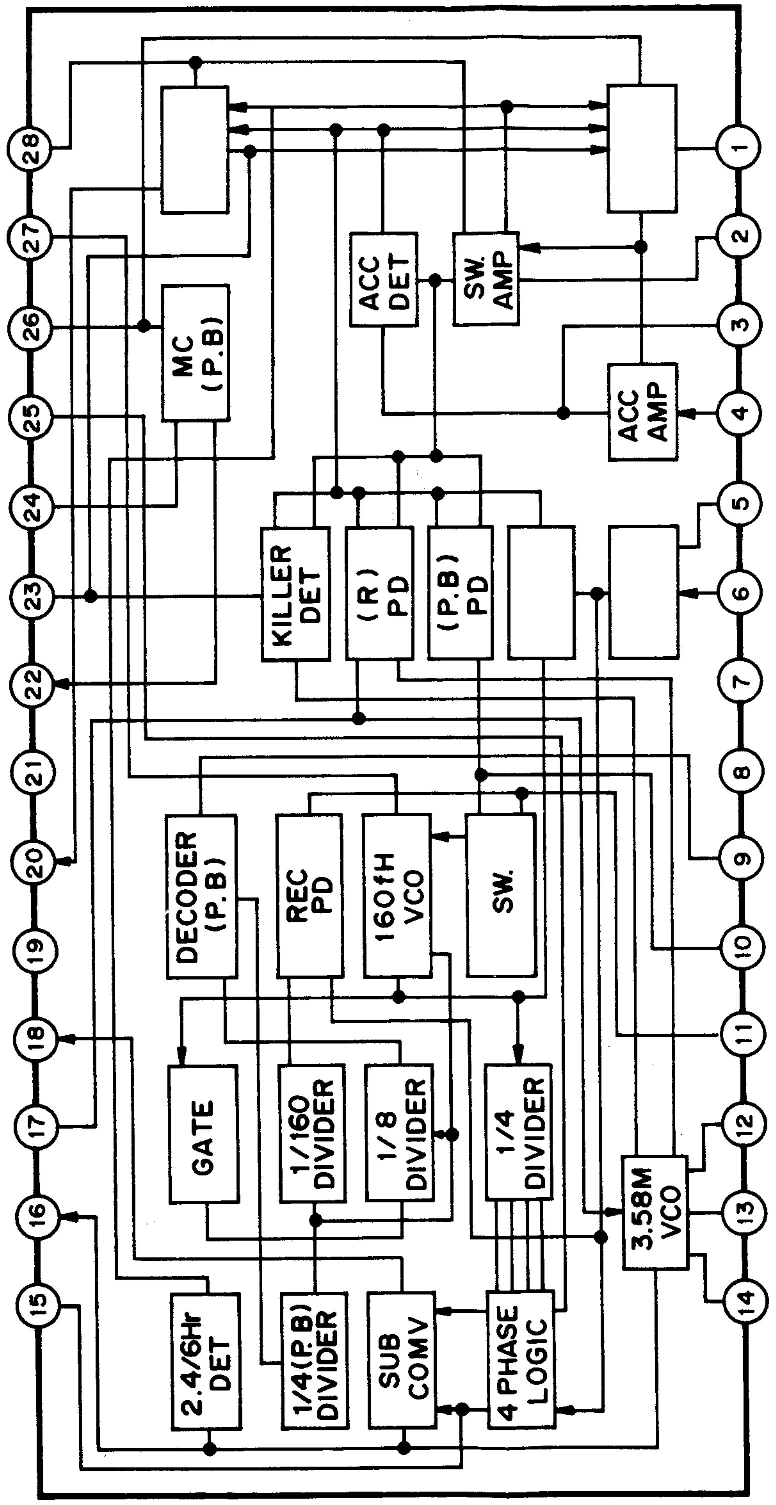
28

IC203 HA11741


ACC DET
SW. AMP
ACC AMP
MC (P.B)
KILLER DET
(R) PD
(P.B) PD
DECODER (P.B)
REC PD
160fH VCO
SW.
GATE
1/160 DIVIDER
1/8 DIVIDER
1/4 DIVIDER
3.58M VCO
2.4/6Hr DET
1/4(P.B) DIVIDER
SUB COMV
4 PHASE LOGIC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
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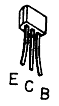
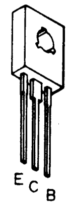
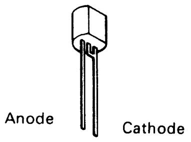
TERMINAL VIEW



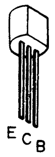
2SA608SP
2SC536SP
2SC2458



2SA612
2SC496
2SC1449
2SD894

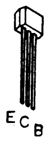

Anode
Cathode

MPC574J

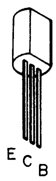


2SA608NP
2SA733
2SA817
2SA950
2SA952
2SA953
2SA953K

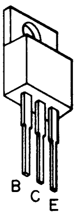
2SA984
2SA984K
2SA1015
2SA1016
2SA1198
2SB698
2SC536NP
2SC945
2SC1627
2SC1652
2SC1815
2SC2002
2SC2274
2SC2363
2SC2785
2SD545
2SD734



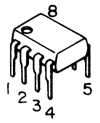
2SB810



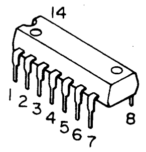
2SA400
2SA965
2SB560
2SC2236



2SD313
2SD568
2SD613



LA6458DF


14
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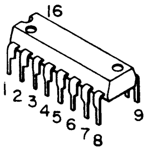
HA11722
LC4013
LC4069
LC4081


16
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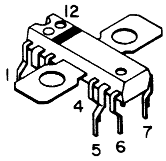
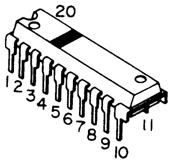
HA11713
HD14506



HA11715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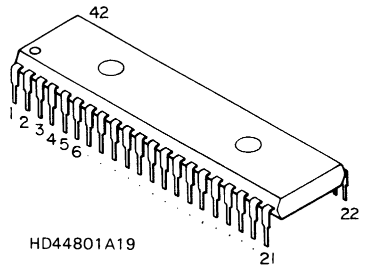
HA11714


42
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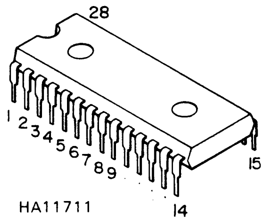
21

HD44801A19


28
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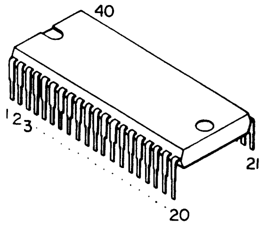
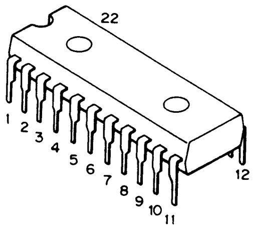
HA11711
HA11724
HA11725
HA11741
HD38701A06



SPT2300L02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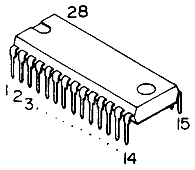
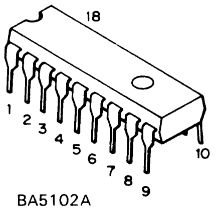
LA7810



TMS1024NHL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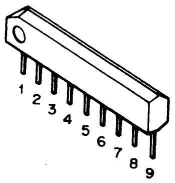
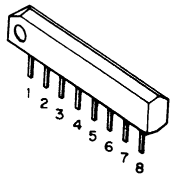
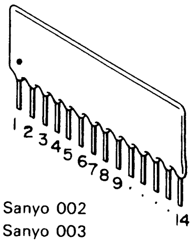
BA5102A
LA7040



LA7905



LA7016


1
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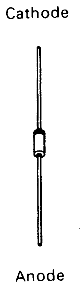
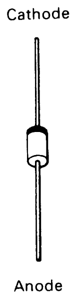
3
4
5
6
7
8
9
14

Sanyo 002
Sanyo 003
Sanyo 004

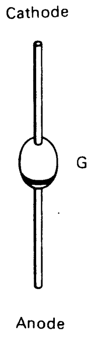

Cathode
Anode

1S2076
DS442
EQA02-06
EQA02-08
EQA02-09
EQA02-10
EQA02-16

EQA02-23
EQA02-35
GZA5.1
GZA6.2
GZA8.2
GZA10
GZA16
GZA22
GZA36
GZA39E
GZA91
RD6.2E
RD8.2E
RD10E
RD11E
RD16E
RD24E
RD39E
RD51E


Cathode
Anode

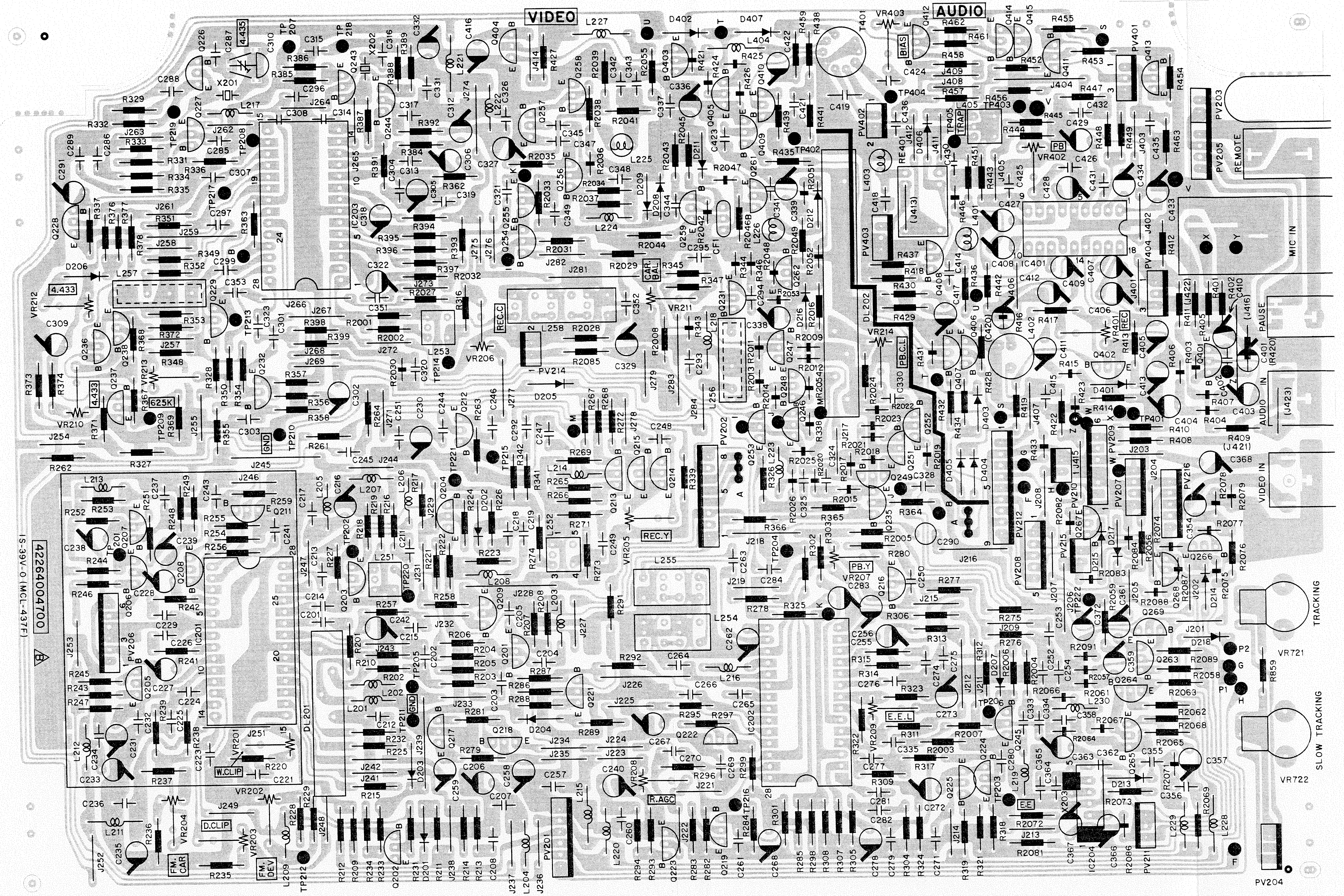
DS135E
ERB12-02


Cathode
Anode

GSA30C

NOTES. B : Base C : Collector E : Emitter

VIDEO AUDIO P.C.B.


VIDEO
AUDIO
BIAS
TRAP
PB
REC
MIC IN
PAUSE
AUDIO IN
VIDEO IN
REMOTE
TRACKING
SLOW TRACKING
VR721
VR722
PV204
REC.C
REC.Y
CAR.BAL
PB.C.L
PB.Y
E.E.L
E.E
R.AGC
W.CLIP
D.CLIP
FM.CAR
FM.DEV
GND
4.433
4.435
625K
4226400470 0
1S-39V-0 (MCL-437F)

4-2264-004700 57.4.20

Ⓔ

AUDIO CIRCUIT DIAGRA

Q401 : 2SC3071

Q402 , 405 , 407 , 409 , 411 : 2SC536NP(F,G) x 5
or 2SC536SP(F,G)
or 2SC2785 (E,F)
or 2SC945 (K,P)

Q403 : TG2SB698(F,G) or 2SA952 (L,M) or 2SA950 (O,Y)

Q404 : 2SC2274(E,F) or 2SC2002 (L,M)

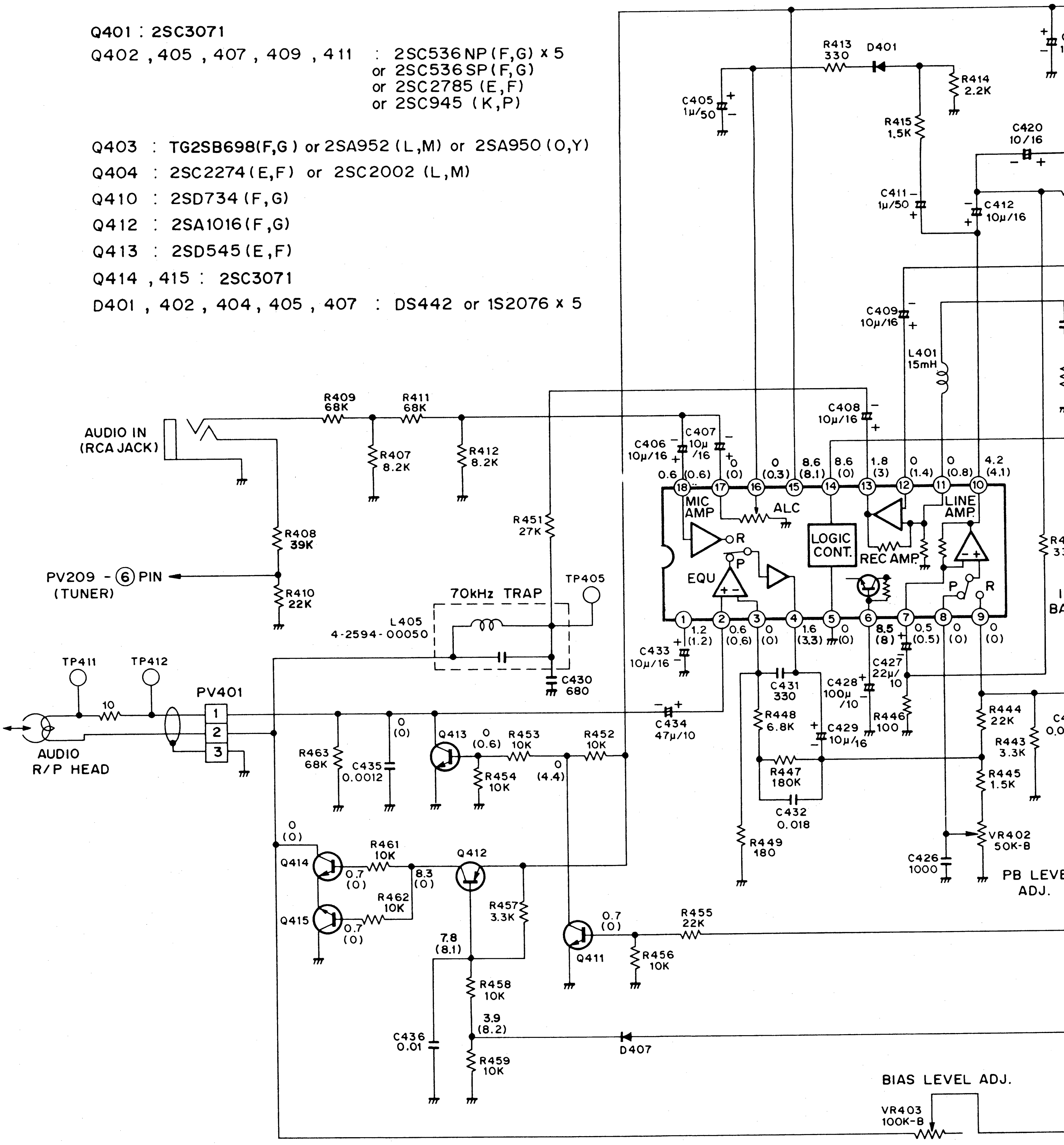
Q410 : 2SD734 (F,G)

Q412 : 2SA1016(F,G)

Q413 : 2SD545(E,F)

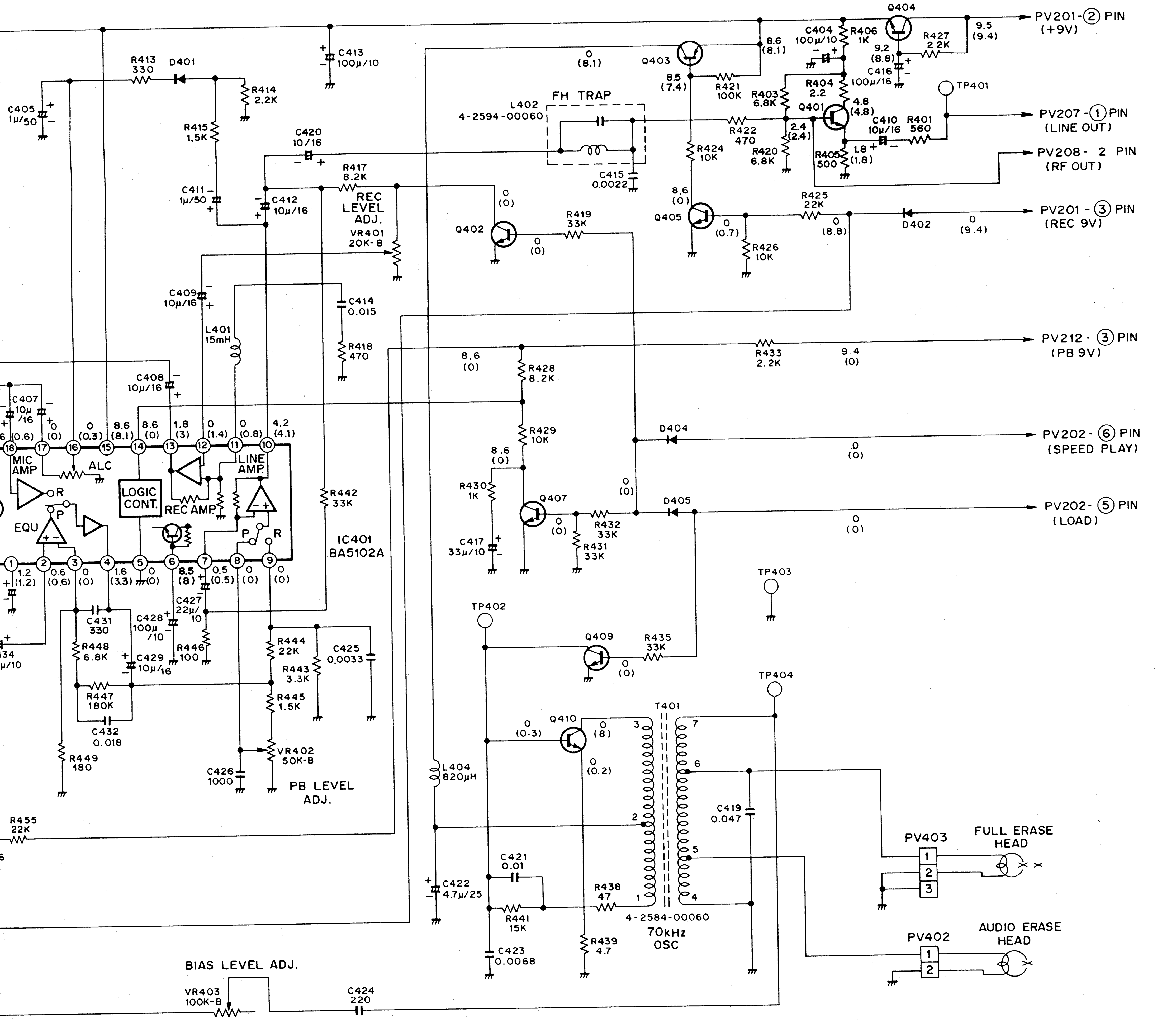
Q414 , 415 : 2SC3071

D401 , 402 , 404, 405 , 407 : DS442 or 1S2076 x 5



R413
330
D401
R414
2.2K
C405
1µ/50
R415
1.5K
C420
10/16
C411
1µ/50
C412
10µ/16
C409
10µ/16
L401
15mH
C408
10µ/16
AUDIO IN
(RCA JACK)
R409
68K
R411
68K
R407
8.2K
R412
8.2K
C406
10µ/16
C407
10µ
/16
MIC
AMP
ALC
LOGIC
CONT.
REC AMP
LINE
AMP
EQU
R
P
R408
39K
PV209 - ⑥ PIN
(TUNER)
R410
22K
R451
27K
70kHz TRAP
L405
4-2594-00050
TP405
C430
680
C433
10µ/16
TP411
TP412
PV401
10
AUDIO
R/P HEAD
C434
47µ/10
C431
330
R448
6.8K
C428
100µ
/10
C429
10µ/16
C427
22µ/
10
R446
100
R447
180K
C432
0.018
R449
180
R444
22K
R443
3.3K
R445
1.5K
VR402
50K-B
C426
1000
PB LEVE
ADJ.
R463
68K
C435
0.0012
Q413
R453
10K
R452
10K
R454
10K
Q414
R461
10K
Q412
R462
10K
Q415
R457
3.3K
Q411
R455
22K
R456
10K
R458
10K
C436
0.01
R459
10K
D407
BIAS LEVEL ADJ.
VR403
100K-B

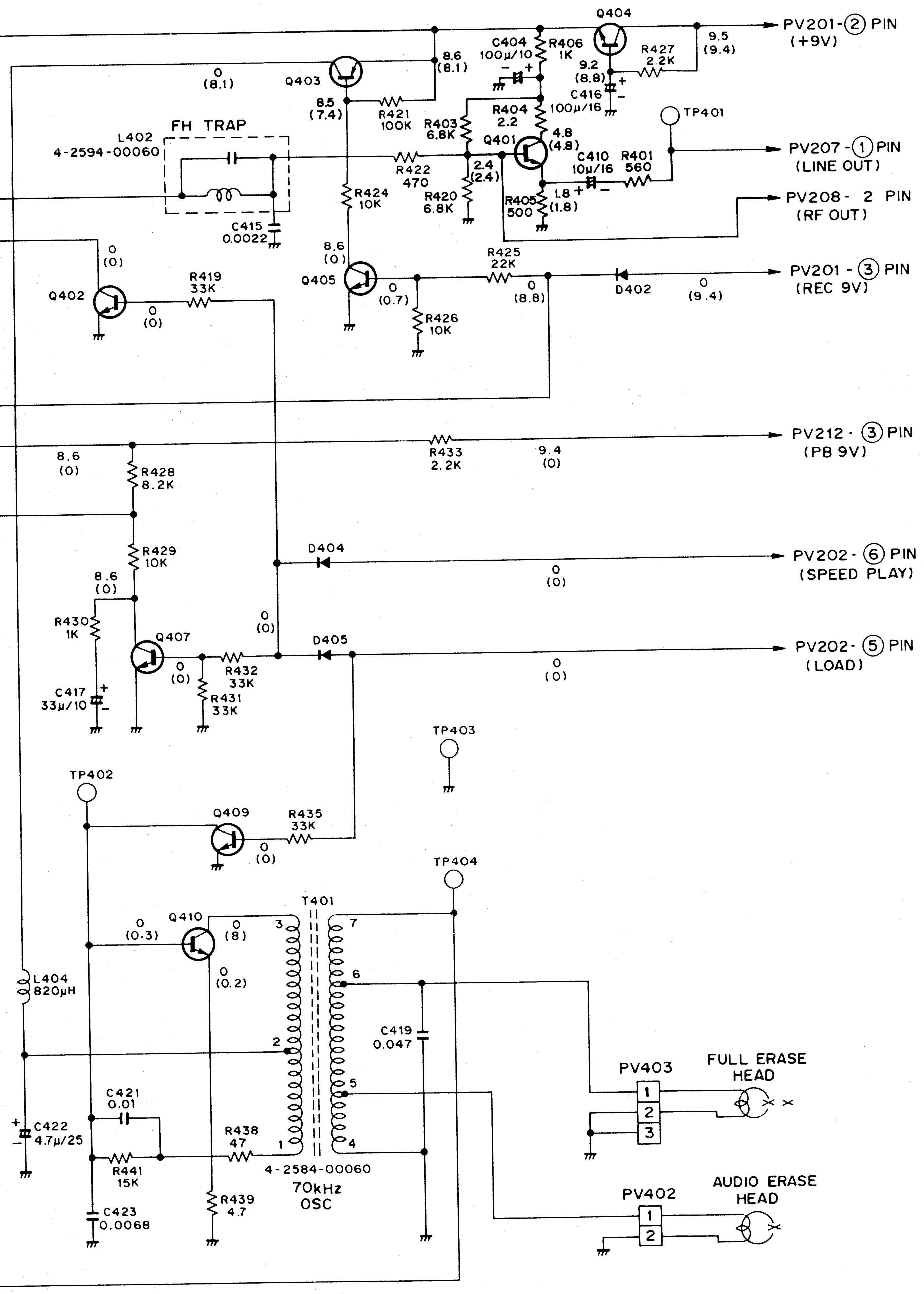
AUDIO CIRCUIT DIAGRAM



Q404
PV201-② PIN
(+9V)
9.5
(9.4)
R427
2.2K
R406
1K
9.2
(8.8)
C416
100μ/16
C404
100μ/10
8.6
(8.1)
Q403
8.5
(7.4)
R421
100K
0
(8.1)
C413
100μ/10
R413
330
D401
R414
2.2K
C405
1μ/50
R415
1.5K
C420
10/16
C411
1μ/50
C412
10μ/16
R417
8.2K
REC
LEVEL
ADJ.
VR401
20K-B
FH TRAP
L402
4-2594-00060
C415
0.0022
R422
470
R403
6.8K
R404
2.2
Q401
4.8
(4.8)
2.4
(2.4)
R420
6.8K
R405
500
1.8
(1.8)
C410
10μ/16
R401
560
TP401
PV207-① PIN
(LINE OUT)
PV208- 2 PIN
(RF OUT)
R424
10K
8.6
(0)
Q405
0
(0.7)
R426
10K
R425
22K
0
(8.8)
D402
0
(9.4)
PV201-③ PIN
(REC 9V)
Q402
0
(0)
R419
33K
0
(0)
C409
10μ/16
L401
15mH
C414
0.015
R418
470
C408
10μ/16
C407
10μ
/16
R433
2.2K
9.4
(0)
PV212-③ PIN
(PB 9V)
8.6
(0)
R428
8.2K
R429
10K
8.6
(0)
R430
1K
C417
33μ/10
Q407
0
(0)
R432
33K
R431
33K
D404
PV202-⑥ PIN
(SPEED PLAY)
0
(0)
D405
PV202-⑤ PIN
(LOAD)
0
(0)
0
(0.3)
8.6
(8.1)
8.6
(0)
1.8
(3)
0
(1.4)
0
(0.8)
4.2
(4.1)
(0.6)
0
(0)
MIC
AMP
ALC
LOGIC
CONT.
LINE
AMP
REC AMP
EQU
P
R
IC401
BA5102A
R442
33K
1.2
(1.2)
0.6
(0.6)
0
(0)
1.6
(3.3)
0
(0)
8.5
(8)
0.5
(0.5)
0
(0)
0
(0)
C431
330
C428
100μ
/10
C427
22μ/
10
R446
100
R448
6.8K
C429
10μ/16
R447
180K
C432
0.018
R449
180
R444
22K
R443
3.3K
C425
0.0033
R445
1.5K
VR402
50K-B
C426
1000
PB LEVEL
ADJ.
R455
22K
TP402
TP403
Q409
R435
33K
0
(0)
TP404
Q410
0
(-0.3)
0
(8)
0
(0.2)
T401
L404
820μH
C419
0.047
PV403
FULL ERASE
HEAD
C421
0.01
C422
4.7μ/25
R441
15K
R438
47
4-2584-00060
70kHz
OSC
R439
4.7
C423
0.0068
PV402
AUDIO ERASE
HEAD
BIAS LEVEL ADJ.
VR403
100K-B
C424
220

NOTES:
All voltage are in PLAY mode
unless otherwise noted.
( ) : RECORD mode

NOTES:
1. All resistance values in "OHMS" unless other
M=1,000,000)
2. All inductance values in "mH" unless otherwise not


Q404
PV201-② PIN
(+9V)
9.5
(9.4)
R427
2.2K
C404
100μ/10
R406
1K
9.2
(8.8)
C416
100μ/16
8.6
(8.1)
0
(8.1)
Q403
8.5
(7.4)
R421
100K
R403
6.8K
R404
2.2
Q401
4.8
(4.8)
TP401
PV207-① PIN
(LINE OUT)
C410
10μ/16
R401
560
L402
4-2594-00060
FH TRAP
R422
470
2.4
(2.4)
R420
6.8K
R405
500
1.8
(1.8)
PV208- 2 PIN
(RF OUT)
R424
10K
C415
0.0022
8.6
(0)
0
(0)
Q402
R419
33K
0
(0)
Q405
0
(0.7)
R425
22K
0
(8.8)
R426
10K
D402
0
(9.4)
PV201-③ PIN
(REC 9V)
8.6
(0)
R433
2.2K
9.4
(0)
PV212-③ PIN
(PB 9V)
R428
8.2K
R429
10K
8.6
(0)
D404
0
(0)
PV202-⑥ PIN
(SPEED PLAY)
R430
1K
Q407
0
(0)
C417
33μ/10
0
(0)
R432
33K
R431
33K
D405
0
(0)
PV202-⑤ PIN
(LOAD)
TP403
TP402
Q409
0
(0)
R435
33K
TP404
T401
0
(0.3)
Q410
0
(8)
0
(0.2)
3
7
6
2
5
4
1
L404
820μH
C419
0.047
C421
0.01
R438
47
R441
15K
C422
4.7μ/25
4-2584-00060
70kHz
OSC
R439
4.7
C423
0.0068
PV403
FULL ERASE
HEAD
1
2
3
PV402
AUDIO ERASE
HEAD
1
2

NOTES:
All voltage are in PLAY mode
unless otherwise noted.
( ) : RECORD mode

NOTES:
1. All resistance values in "OHMS" unless otherwise noted. (K=1,000
M=1,000,000)
2. All inductance values in "mH" unless otherwise noted. μ=micro henry.

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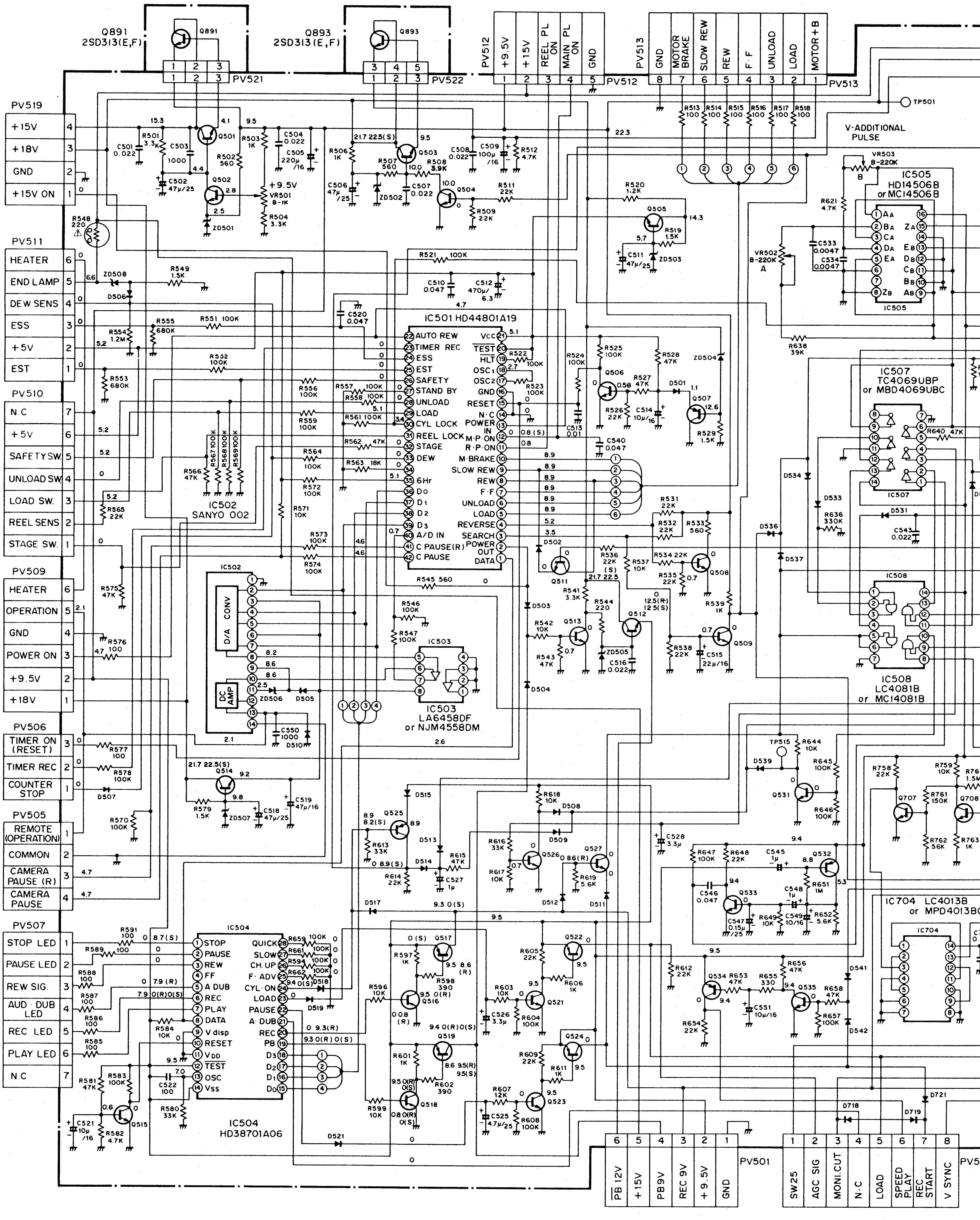
SYSTEM CONTROL SERVO DIAGRAM


Q891 2SD313(E,F)
Q893 2SD313(E,F)
PV521
PV522
PV512
+9.5V
+15V
REEL PL ON
MAIN PL ON
GND
PV513
GND
MOTOR BRAKE
SLOW REW
REW
F·F
UNLOAD
LOAD
MOTOR+B
TP501
V·ADDITIONAL PULSE
PV519
+15V
+18V
GND
+15V ON
PV511
HEATER
END LAMP
DEW SENS
ESS
+5V
EST
PV510
N C
+5V
SAFETY SW
UNLOAD SW
LOAD SW.
REEL SENS
STAGE SW.
PV509
HEATER
OPERATION
GND
POWER ON
+9.5V
+18V
PV506
TIMER ON (RESET)
TIMER REC
COUNTER STOP
PV505
REMOTE (OPERATION)
COMMON
CAMERA PAUSE (R)
CAMERA PAUSE
PV507
STOP LED
PAUSE LED
REW SIG.
AUD · DUB LED
REC LED
PLAY LED
N.C
IC501 HD44801A19
AUTO REW
TIMER REC
ESS
EST
SAFETY
STAND BY
UNLOAD
LOAD
CYL LOCK
REEL LOCK
STAGE
DEW
6Hr
D0
D1
D2
D3
A/D IN
C PAUSE(R)
C PAUSE
VCC
TEST
HLT
OSC1
OSC2
GND
RESET
N·C
POWER IN
M·P·ON
R·P·ON
M·BRAKE
SLOW REW
REW
F·F
UNLOAD
LOAD
REVERSE
SEARCH
POWER OUT
DATA
IC502 SANYO 002
D/A CONV
DC AMP
IC503 LA6458DF or NJM4558DM
IC504 HD38701A06
STOP
PAUSE
REW
FF
A DUB
REC
PLAY
DATA
V disp
RESET
VDD
TEST
OSC
Vss
QUICK
SLOW
CH. UP
F· ADV
CYL· ON
LOAD
PAUSE
A· DUB
REC
PB
D3
D2
D1
D0
IC505 HD14506B or MC14506B
IC507 TC4069UBP or MBD4069UBC
IC508 LC4081B or MC14081B
IC704 LC4013B or MPD4013BC
TP515
PV501
PB 12V
+15V
PB9V
REC 9V
+9.5V
GND
SW25
AGC SIG
MONI.CUT
N·C
LOAD
SPEED PLAY
REC START
V SYNC

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A UNIT. COMPONENTS INDICATED BY THE SYMBOL ⚠ IN THIS SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE ATTACHED PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY THE SYMBOL.

NOTES:

All voltage are in PLAY, RECORD

unless otherwise noted.

(R) = RECORD mode only

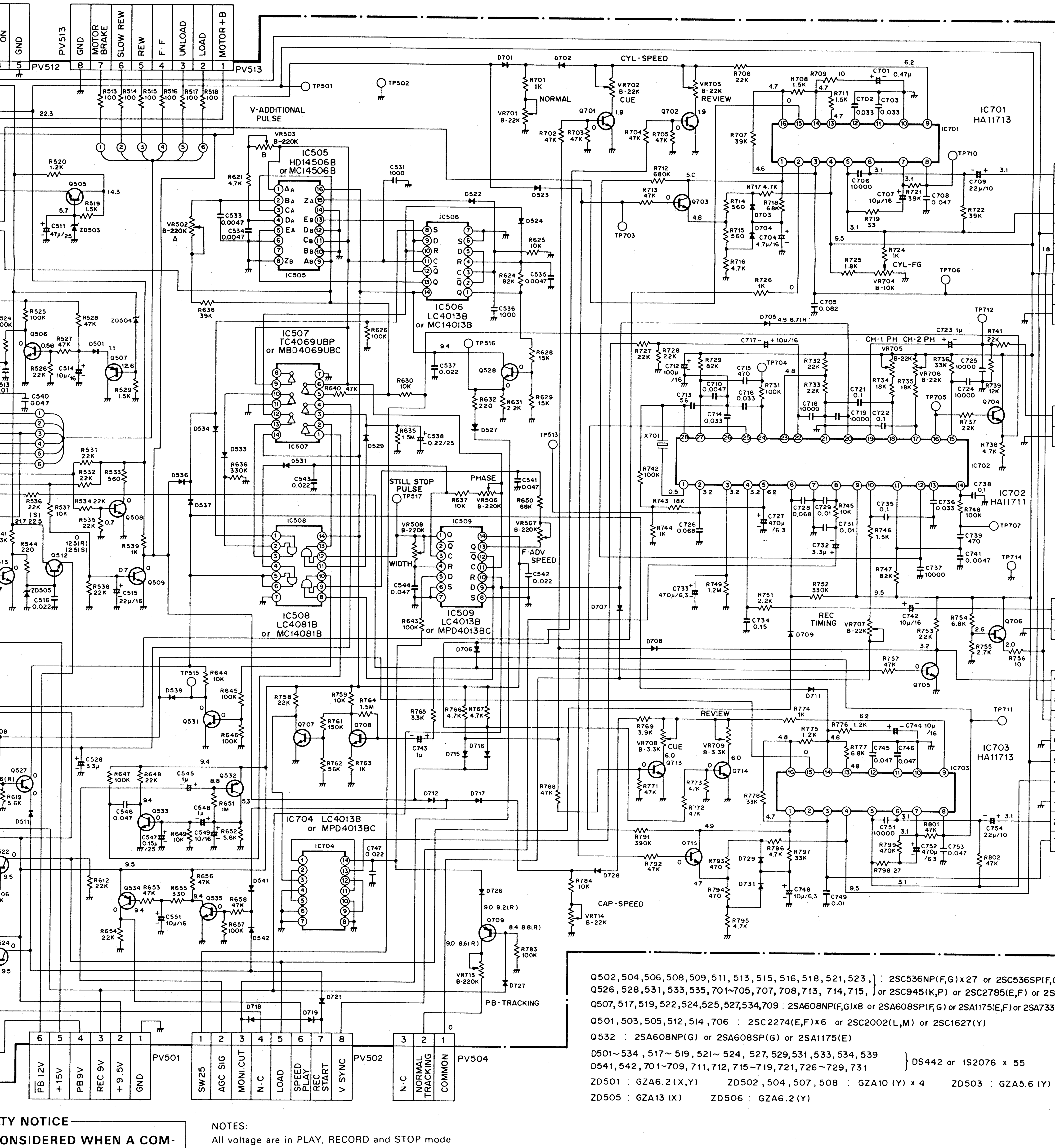
(S) = STOP Mode only

NOTES:

1. All resistance values in "OHMS

2. All inductance values in "mH"

SYSTEM CONTROL SERVO DIAGRAM


PV512
PV513
GND
MOTOR BRAKE
SLOW REW
REW
F.F
UNLOAD
LOAD
MOTOR+B
V-ADDITIONAL PULSE
TP501
TP502
IC505 HD14506B or MC14506B
IC506 LC4013B or MC14013B
IC507 TC4069UBP or MBD4069UBC
IC508 LC4081B or MC14081B
IC509 LC4013B or MPD4013BC
IC704 LC4013B or MPD4013BC
STILL STOP PULSE
PHASE
WIDTH
F-ADV SPEED
CYL-SPEED
NORMAL
CUE
REVIEW
IC701 HA11713
IC702 HA11711
IC703 HA11713
CYL-FG
CH-1 PH
CH-2 PH
REC TIMING
CAP-SPEED
PB-TRACKING
X701
PV501
PB 12V
+15V
PB9V
REC 9V
+9.5V
GND
PV502
SW25
AGC SIG
MONI.CUT
N-C
LOAD
SPEED PLAY
REC START
V SYNC
PV504
N-C
NORMAL TRACKING
COMMON

Q502, 504, 506, 508, 509, 511, 513, 515, 516, 518, 521, 523, Q526, 528, 531, 533, 535, 701~705, 707, 708, 713, 714, 715, : 2SC536NP(F,G)x27 or 2SC536SP(F,(or 2SC945(K,P) or 2SC2785(E,F) or 2S

Q507, 517, 519, 522, 524, 525, 527, 534, 709 : 2SA608NP(F,G)x8 or 2SA608SP(F,G) or 2SA1175(E,F) or 2SA733

Q501, 503, 505, 512, 514, 706 : 2SC2274(E,F)x6 or 2SC2002(L,M) or 2SC1627(Y)

Q532 : 2SA608NP(G) or 2SA608SP(G) or 2SA1175(E)

D501~534, 517~519, 521~524, 527, 529, 531, 533, 534, 539
D541, 542, 701~709, 711, 712, 715~719, 721, 726~729, 731 } DS442 or 1S2076 x 55

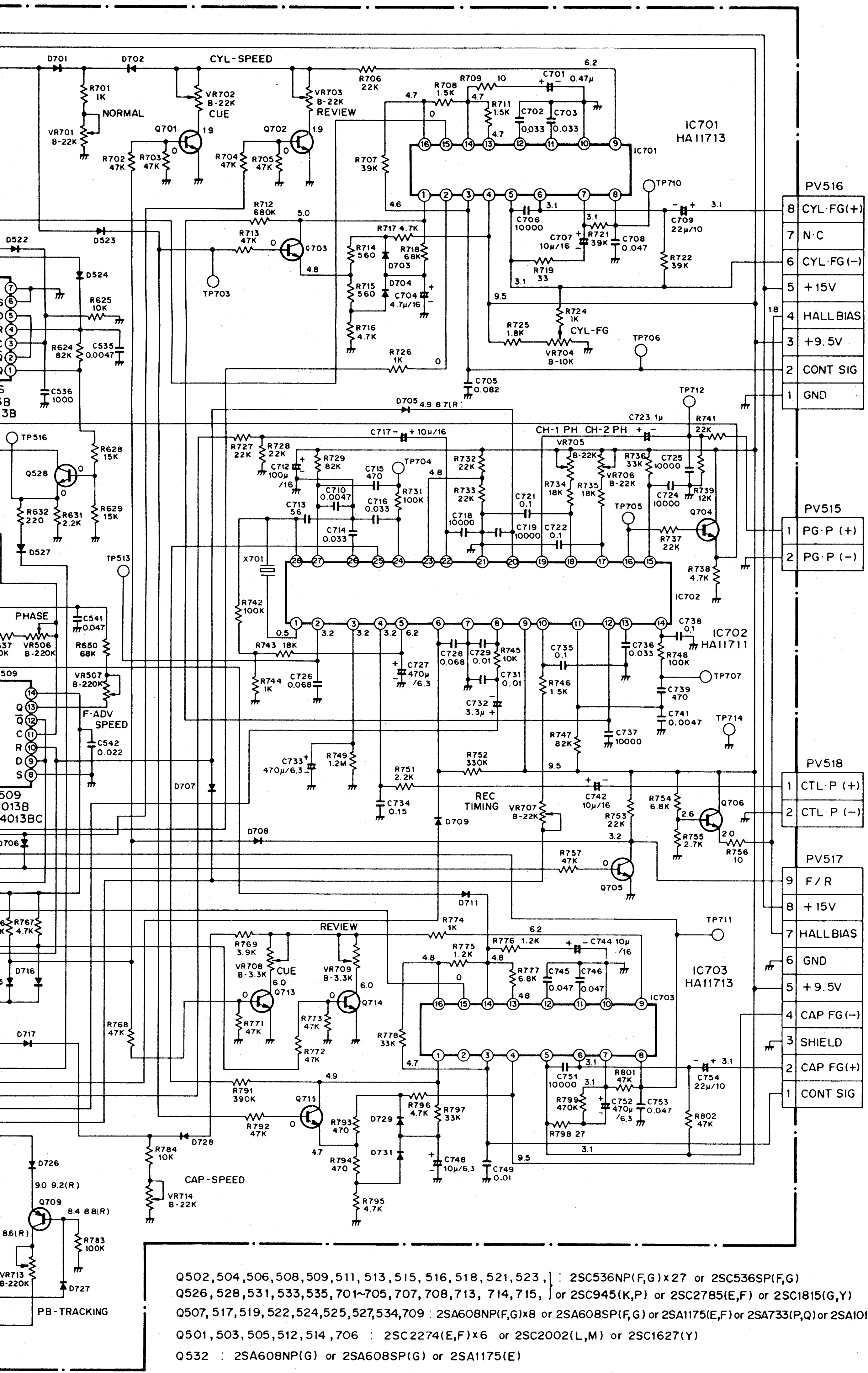
ZD501 : GZA6.2(X,Y) ZD502, 504, 507, 508 : GZA10 (Y) x 4 ZD503 : GZA5.6 (Y)

ZD505 : GZA13 (X) ZD506 : GZA6.2(Y)

TY NOTICE
ONSIDERED WHEN A COM-
E IN ANY AREA OF A UNIT.
E SYMBOL ⚠ IN THIS SCHE-
NENTS WHOSE VALUE HAVE
UCT SAFETY. IT IS PARTICU-
LY PARTS SPECIFIED ON THE
FOR COMPONENT REPLACE-
BOL.

NOTES:
All voltage are in PLAY, RECORD and STOP mode
unless otherwise noted.
(R) = RECORD mode only
(S) = STOP Mode only

NOTES:
1. All resistance values in "OHMS"unless otherwise noted.(K=1,000 M=1,000,000)
2. All inductance values in "mH" unless otherwise noted.μ=micro henry.


CYL-SPEED
NORMAL
CUE
REVIEW
IC701
HA11713
PV516
8 CYL·FG(+)
7 N·C
6 CYL·FG(−)
5 +15V
4 HALL BIAS
3 +9.5V
2 CONT SIG
1 GND
CYL-FG
CH-1 PH CH-2 PH
PV515
1 PG·P (+)
2 PG·P (−)
IC702
HA11711
PHASE
F·ADV SPEED
509
013B
4013BC
REC TIMING
PV518
1 CTL·P (+)
2 CTL·P (−)
PV517
9 F/R
8 +15V
7 HALL BIAS
6 GND
5 +9.5V
4 CAP FG(−)
3 SHIELD
2 CAP FG(+)
1 CONT SIG
IC703
HA11713
CAP-SPEED
PB-TRACKING
PV504

Q502, 504, 506, 508, 509, 511, 513, 515, 516, 518, 521, 523, } : 2SC536NP(F,G) x 27 or 2SC536SP(F,G)
Q526, 528, 531, 533, 535, 701~705, 707, 708, 713, 714, 715, } or 2SC945(K,P) or 2SC2785(E,F) or 2SC1815(G,Y)

Q507, 517, 519, 522, 524, 525, 527, 534, 709 : 2SA608NP(F,G)x8 or 2SA608SP(F,G) or 2SA1175(E,F) or 2SA733(P,Q) or 2SA1015(G,Y)

Q501, 503, 505, 512, 514, 706 : 2SC2274(E,F)x6 or 2SC2002(L,M) or 2SC1627(Y)

Q532 : 2SA608NP(G) or 2SA608SP(G) or 2SA1175(E)

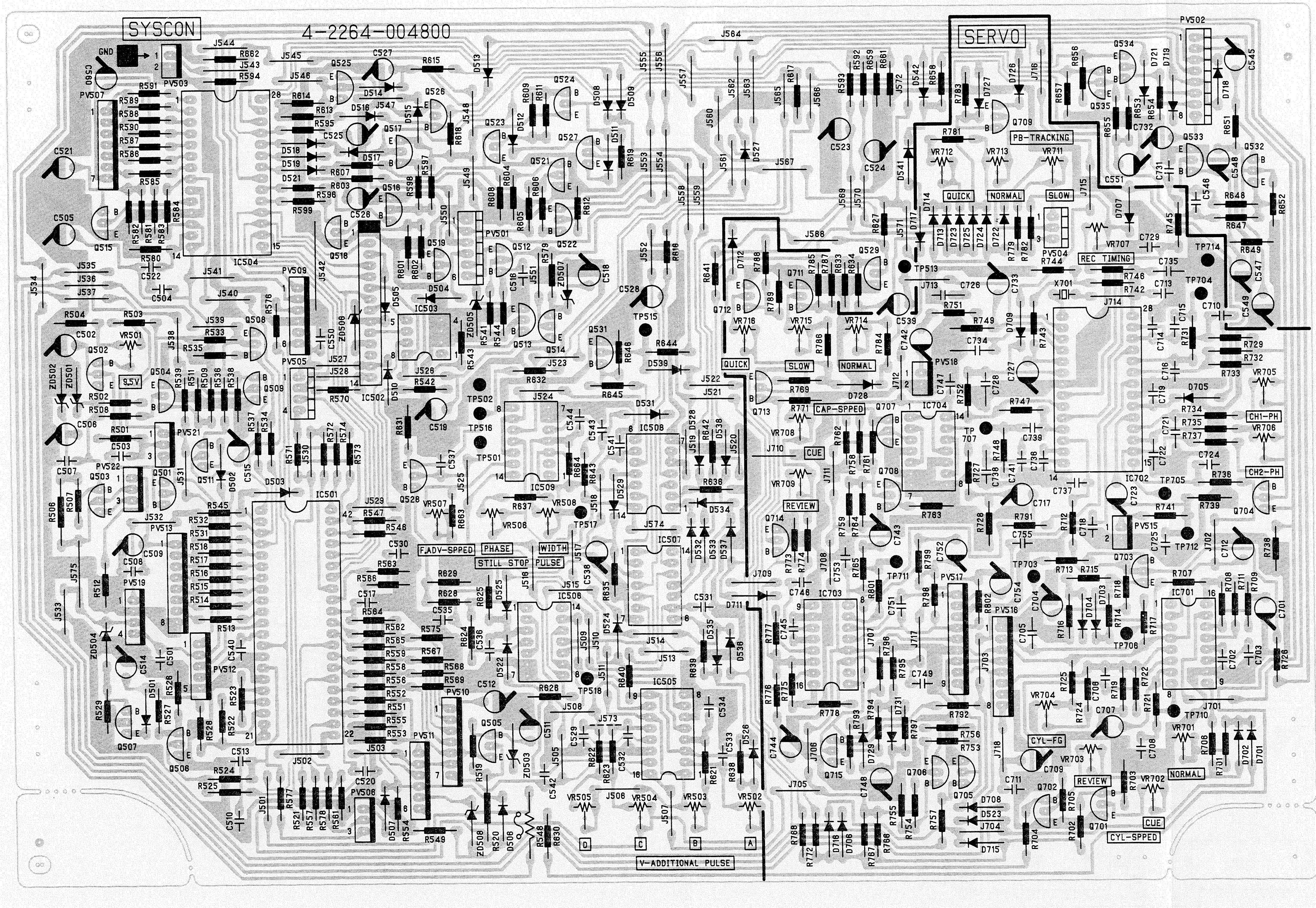
D501~534, 517~519, 521~524, 527, 529, 531, 533, 534, 539 }
D541, 542, 701~709, 711, 712, 715~719, 721, 726~729, 731 } DS442 or 1S2076 x 55

ZD501 : GZA6.2(X,Y) ZD502, 504, 507, 508 : GZA10 (Y) x 4 ZD503 : GZA5.6 (Y)

ZD505 : GZA13 (X) ZD506 : GZA6.2 (Y)

e noted.(K=1,000 M=1,000,000)
noted.μ=micro henry.

SYSTEM CONTROL SERVO P.C.B.


SYSCON
4-2264-004800
SERVO
PB-TRACKING
QUICK
NORMAL
SLOW
REC TIMING
CAP-SPPED
CUE
REVIEW
F.ADV-SPPED
PHASE
WIDTH
STILL STOP
PULSE
CH1-PH
CH2-PH
CYL-FG
CYL-SPPED
V-ADDITIONAL PULSE
IC501
IC502
IC503
IC504
IC505
IC507
IC508
IC509
IC701
IC702
IC703
IC704
GND
9.5V

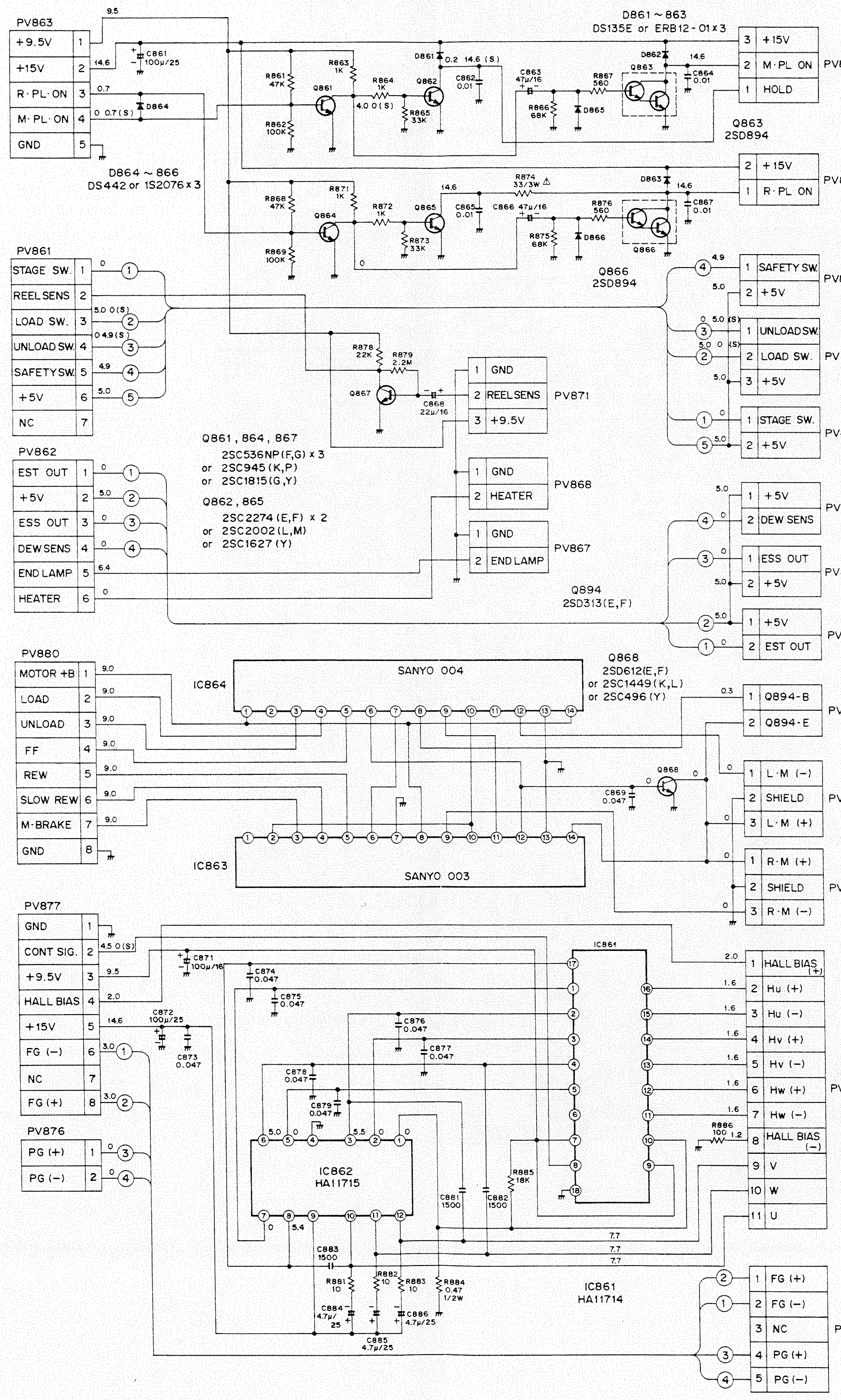
SYSTEM CONTROL DRIVE DIAGRAM

NOTES:
All voltage are in PLAY, RECORD and STOP mode unless otherwise noted.
(S) = STOP mode only

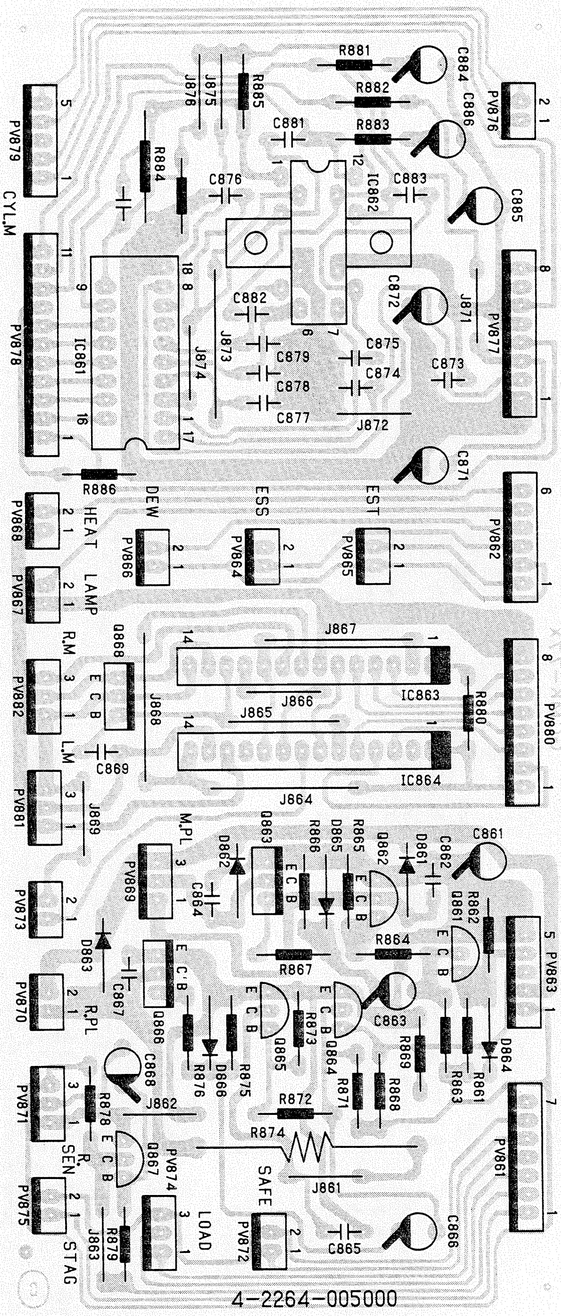
NOTES:
1. All resistance values in "OHMS" unless otherwise noted.(K=1,000 M=1,000,000)
2. All inductance values in "mH" unless otherwise noted.μ=micro henry.

PRODUCT SAFETY NOTICE

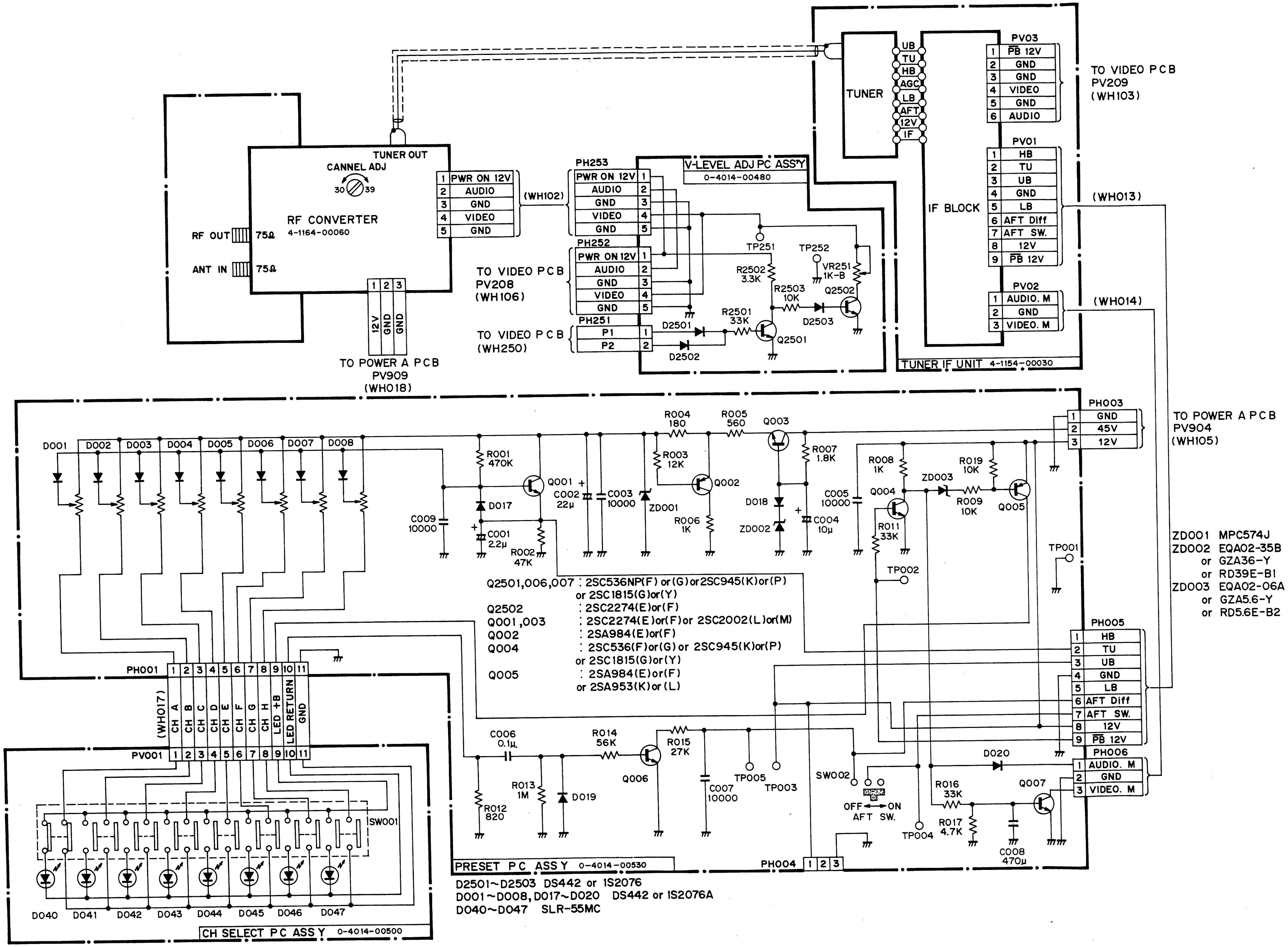
PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A UNIT. COMPONENTS INDICATED BY THE SYMBOL ⚠ IN THIS SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE ATTACHED PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY THE SYMBOL.


PV863
+9.5V
+15V
R·PL·ON
M·PL·ON
GND
D861 ~ 863
DS135E or ERB12-01×3
D864 ~ 866
DS442 or 1S2076×3
PV869
+15V
M·PL ON
HOLD
Q863
2SD894
PV870
R·PL ON
PV861
STAGE SW.
REEL SENS
LOAD SW.
UNLOAD SW
SAFETY SW
+5V
NC
Q866
2SD894
PV872
SAFETY SW.
PV874
UNLOAD SW
LOAD SW.
PV871
GND
REEL SENS
+9.5V
PV875
STAGE SW.
Q861, 864, 867
2SC536NP(F,G)×3
or 2SC945(K,P)
or 2SC1815(G,Y)
Q862, 865
2SC2274(E,F)×2
or 2SC2002(L,M)
or 2SC1627(Y)
PV862
EST OUT
ESS OUT
DEW SENS
END LAMP
HEATER
PV868
HEATER
PV867
END LAMP
PV866
DEW SENS
PV864
ESS OUT
PV865
EST OUT
Q894
2SD313(E,F)
PV880
MOTOR +B
LOAD
UNLOAD
FF
REW
SLOW REW
M·BRAKE
GND
IC864
SANYO 004
Q868
2SD612(E,F)
or 2SC1449(K,L)
or 2SC496(Y)
PV873
Q894-B
Q894-E
PV881
L·M (−)
SHIELD
L·M (+)
IC863
SANYO 003
PV882
R·M (+)
R·M (−)
PV877
CONT SIG.
HALL BIAS
FG (−)
FG (+)
PV876
PG (+)
PG (−)
IC861
PV878
HALL BIAS (+)
Hu (+)
Hu (−)
Hv (+)
Hv (−)
Hw (+)
Hw (−)
HALL BIAS (−)
V
W
U
IC862
HA11715
IC861
HA11714
PV879
FG (+)
FG (−)
NC
PG (+)
PG (−)

SYSTEM CONTROL DRIVE P.C.B.


CYLM
DEW
ESS
EST
HEAT
LAMP
R.M
L.M
M.PL
R.PL
SEN
STAG
SAFE
LOAD
IC861
IC862
IC863
IC864
PV879
PV878
PV876
PV877
PV862
PV880
PV883
PV861
PV868
PV867
PV882
PV881
PV873
PV870
PV871
PV875
PV866
PV864
PV865
PV869
PV874
PV872
4-2264-005000

TUNER RF CONVERTER AND PRESET DIAGRAM


RF CONVERTER
4-1164-00060
TUNER OUT
CANNEL ADJ
30
39
RF OUT
75Ω
ANT IN
75Ω
1 PWR ON 12V
2 AUDIO
3 GND
4 VIDEO
5 GND
(WH102)
12V
GND
GND
TO POWER A PCB
PV909
(WH018)
PH253
PWR ON 12V
AUDIO
GND
VIDEO
GND
PH252
PWR ON 12V
AUDIO
GND
VIDEO
GND
TO VIDEO PCB
PV208
(WH106)
PH251
P1
P2
TO VIDEO PCB
(WH250)
V-LEVEL ADJ PC ASS'Y
0-4014-00480
TP251
TP252
R2502
3.3K
VR251
1K-B
R2503
10K
Q2502
R2501
33K
D2503
D2501
Q2501
D2502
TUNER
UB
TU
HB
AGC
LB
AFT
12V
IF
IF BLOCK
PV03
1 PB 12V
2 GND
3 GND
4 VIDEO
5 GND
6 AUDIO
TO VIDEO PCB
PV209
(WH103)
PV01
1 HB
2 TU
3 UB
4 GND
5 LB
6 AFT Diff
7 AFT SW.
8 12V
9 PB 12V
(WH013)
PV02
1 AUDIO. M
2 GND
3 VIDEO. M
(WH014)
TUNER IF UNIT 4-1154-00030
D001
D002
D003
D004
D005
D006
D007
D008
R001
470K
Q001
C002
22μ
C003
10000
D017
C009
10000
C001
2.2μ
R002
47K
R004
180
R005
560
Q003
R003
12K
Q002
ZD001
R006
1K
R007
1.8K
D018
ZD002
C004
10μ
C005
10000
R008
1K
ZD003
R019
10K
Q004
R009
10K
Q005
R011
33K
TP002
TP001
PH003
1 GND
2 45V
3 12V
TO POWER A PCB
PV904
(WH105)
PH005
1 HB
2 TU
3 UB
4 GND
5 LB
6 AFT Diff
7 AFT SW.
8 12V
9 PB 12V
PH006
1 AUDIO. M
2 GND
3 VIDEO. M
PH001
(WH017)
CH A
CH B
CH C
CH D
CH E
CH F
CH G
CH H
LED +B
LED RETURN
GND
PV001
SW001
D040
D041
D042
D043
D044
D045
D046
D047
CH SELECT PC ASS'Y 0-4014-00500
C006
0.1μ
R014
56K
Q006
R015
27K
R013
1M
D019
R012
820
C007
10000
TP005
TP003
SW002
OFF ON
AFT SW.
TP004
D020
R016
33K
R017
4.7K
Q007
C008
470μ
PH004
PRESET PC ASS'Y 0-4014-00530

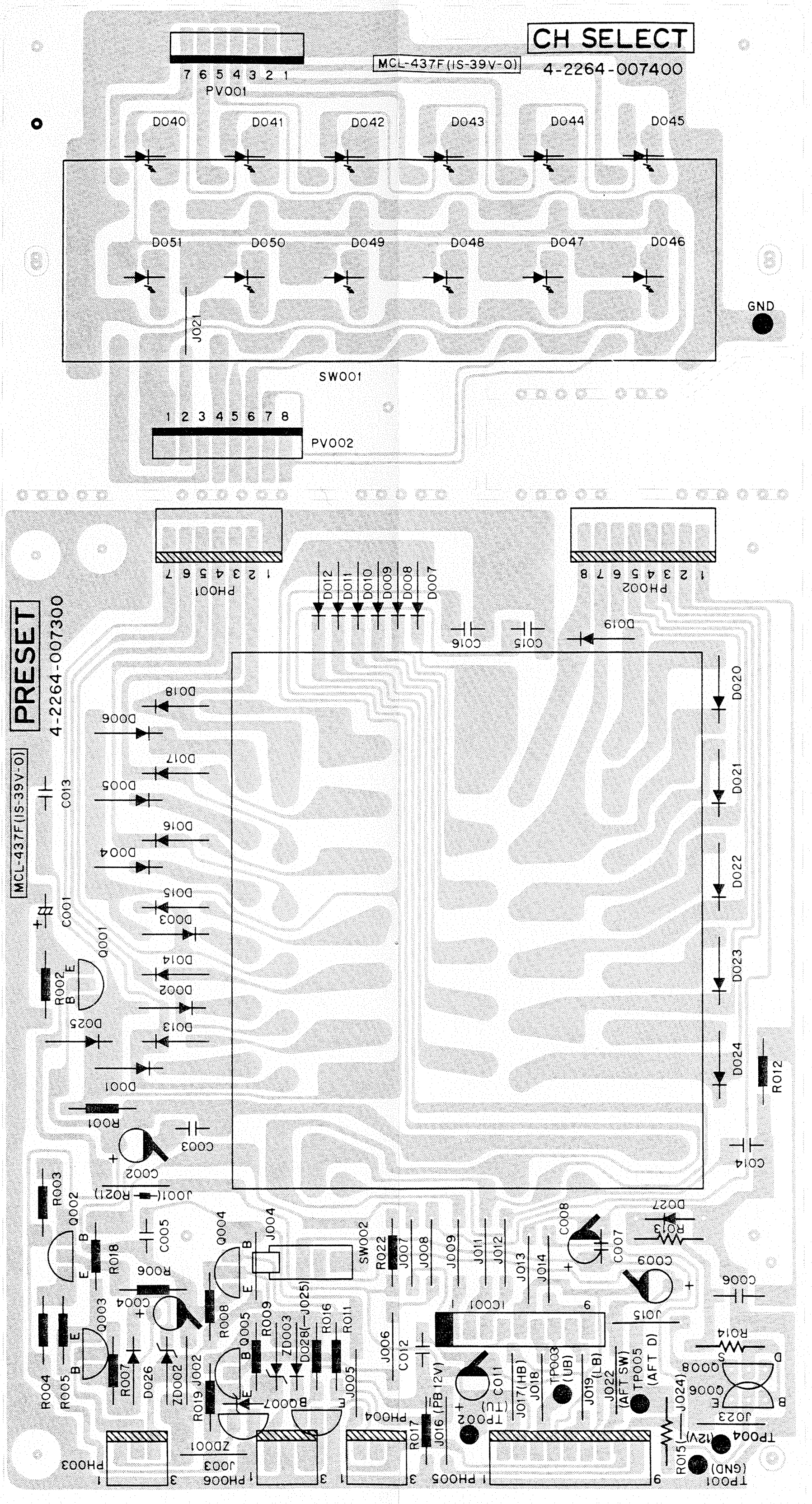
Q2501,006,007 : 2SC536NP(F) or (G) or 2SC945(K) or (P)
or 2SC1815(G) or (Y)
Q2502 : 2SC2274(E) or (F)
Q001,003 : 2SC2274(E) or (F) or 2SC2002(L) or (M)
Q002 : 2SA984(E) or (F)
Q004 : 2SC536(F) or (G) or 2SC945(K) or (P)
or 2SC1815(G) or (Y)
Q005 : 2SA984(E) or (F)
or 2SA953(K) or (L)

ZD001 MPC574J
ZD002 EQA02-35B
or GZA36-Y
or RD39E-B1
ZD003 EQA02-06A
or GZA5.6-Y
or RD5.6E-B2

D2501~D2503 DS442 or 1S2076
D001~D008, D017~D020 DS442 or 1S2076A
D040~D047 SLR-55MC

Ⓚ

TUNER RF CONVERTER AND PRESET P.C.B.

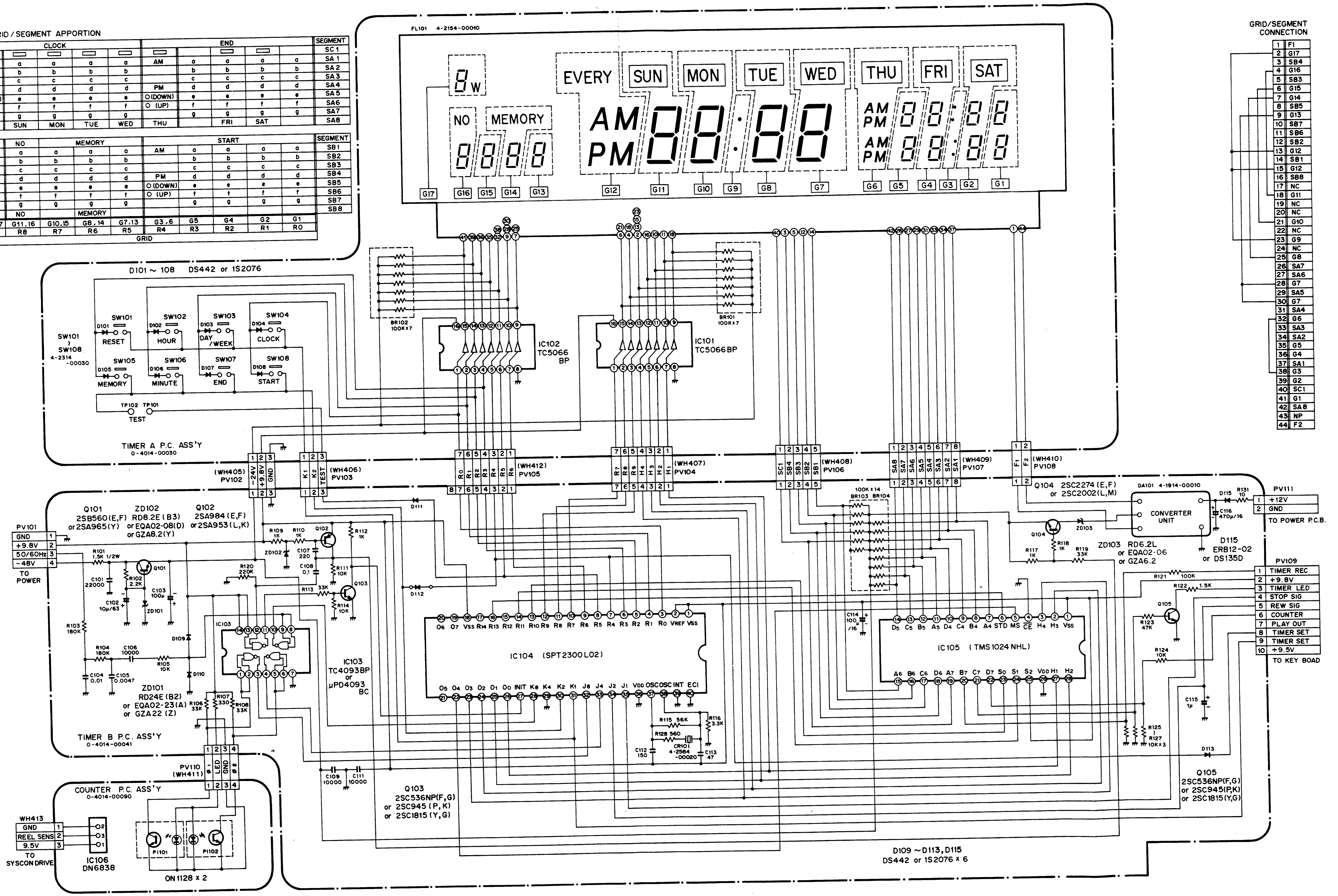

CH SELECT
MCL-437F(IS-39V-0)
4-2264-007400
7 6 5 4 3 2 1
PV001
D040
D041
D042
D043
D044
D045
D051
D050
D049
D048
D047
D046
J021
SW001
GND
1 2 3 4 5 6 7 8
PV002
PRESET
4-2264-007300
MCL-437F(IS-39V-0)
PH001
PH002
D012
D011
D010
D009
D008
D007
C016
C015
D019
D020
D021
D022
D023
D024
R012
C014
D018
D006
D017
D005
D016
D004
D015
D003
D014
D002
D013
D001
D025
Q001
R002
C001
C013
R001
C003
C002
J001(←R021)
R003
Q002
R018
C005
R006
Q004
J004
SW002
R022
J007
J008
J009
J011
J012
J013
J014
C008
C007
D027
R013
C009
C006
J015
IC001
R014
Q008
Q006
J023
TP004 (12V)
TP001 (GND)
R015
J024
TP005 (AFT D)
J022 (AFT SW)
J019 (LB)
TP003 (UB)
J018
J017 (HB)
C011
TP002 (TU)
J016 (PB 12V)
R017
PH004
PH005
C012
J006
J005
R011
R016
D028(←J025)
ZD003
R009
Q005
R008
C004
Q003
R007
D026
ZD002
J002
R019
Q007
ZD001
J003
PH006
PH003
R004
R005

TIMER DIAGRAM

GRID / SEGMENT APPORTION

CLOCK					END					SEGMENT
	▭	▭	▭	▭	▭		▭	▭		SC 1
AM	a	a	a	a	AM	a	a	a	a	SA 1
	b	b	b	b		b	b	b	b	SA 2
	c	c	c	c		c	c	c	c	SA 3
PM	d	d	d	d	PM	d	d	d	d	SA 4
○(DOWN)	e	e	e	e	○(DOWN)	e	e	e	e	SA 5
○ (UP)	f	f	f	f	○ (UP)	f	f	f	f	SA6
	g	g	g	g		g	g	g	g	SA7
EVERY	SUN	MON	TUE	WED	THU		FRI	SAT		SA8

W	NO	MEMORY			START					SEGMENT
a	a	a	a	a	AM	a	a	a	a	SB1
b	b	b	b	b		b	b	b	b	SB2
c	c	c	c	c		c	c	c	c	SB3
d	d	d	d	d	PM	d	d	d	d	SB4
e	e	e	e	e	○(DOWN)	e	e	e	e	SB5
f	f	f	f	f	○ (UP)	f	f	f	f	SB6
g	g	g	g	g		g	g	g	g	SB7
W	NO		MEMORY							SB8
G9 .12 .17	G11 , 16	G10 , 15	G8 , 14	G7 , 13	G3 , 6	G5	G4	G2	G1	
R9	R8	R7	R6	R5	R4	R3	R2	R1	R0	
GRID										


FL101 4-2154-00010
8W
EVERY
SUN
MON
TUE
WED
THU
FRI
SAT
NO
MEMORY
AM
PM
G17
G16
G15
G14
G13
G12
G11
G10
G9
G8
G7
G6
G5
G4
G3
G2
G1
D101 ~ 108 DS442 or 1S2076
SW101 ~ SW108 4-2314 -00030
SW101 D101 RESET
SW102 D102 HOUR
SW103 D103 DAY /WEEK
SW104 D104 CLOCK
SW105 D105 MEMORY
SW106 D106 MINUTE
SW107 D107 END
SW108 D108 START
TP102 TP101 TEST
BR102 100K×7
IC102 TC5066 BP
IC101 TC5066BP
BR101 100K×7
TIMER A P.C. ASS'Y 0-4014-00030
(WH405) PV102
-24V
+9.8V
GND
(WH406) PV103
K1
K2
TEST
(WH412) PV105
R0
R1
R2
R3
R4
R5
R6
(WH407) PV104
R7
R8
R9
H4
H3
H2
H1
(WH408) PV106
SC1
SB4
SB3
SB2
SB1
(WH409) PV107
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
(WH410) PV108
F1
F2
PV101
GND
+9.8V
50/60Hz
-48V
TO POWER
Q101 2SB560(E,F) or 2SA965(Y)
ZD102 RD8.2E(B3) or EQA02-08(D) or GZA8.2(Y)
Q102 2SA984(E,F) or 2SA953(L,K)
R101 1.5K 1/2W
C101 22000
R102 2.2K
C102 10μ/63
C103 100μ
ZD101
R103 180K
R104 180K
C106 10000
R105 10K
C104 0.01
C105 0.0047
D109
D110
ZD101 RD24E(B2) or EQA02-23(A) or GZA22(Z)
R109 1K
R110 1K
R112 1K
C107 220
C108 0,1
R111 10K
R120 220K
R113 33K
R114 10K
Q103
IC103
IC103 TC4093BP or μPD4093 BC
R106 33K
R107 330
R108 33K
TIMER B P.C. ASS'Y 0-4014-00041
PV110 (WH411)
LED
GND
COUNTER P.C. ASS'Y 0-4014-00090
WH413
GND
REEL SENS
9.5V
TO SYSCON DRIVE
IC106 DN6838
P1101
P1102
ON1128 x 2
D111
D112
C109 10000
C111 10000
Q103 2SC536NP(F,G) or 2SC945(P,K) or 2SC1815(Y,G)
IC104 (SPT2300L02)
O6 O7 VSS R14 R13 R12 R11 R10 R9 R8 R7 R6 R5 R4 R3 R2 R1 R0 VREF VSS
O5 O4 O3 O2 O1 O0 INIT K8 K4 K2 K1 J8 J4 J2 J1 VDD OSC OSC INT ECI
R115 56K
R116 3.3K
R128 560
CR101 4-2584 -00020
C112 150
C113 47
100K×14 BR103 BR104
C114 100μ/16
IC105 (TMS1024NHL)
D5 C5 B5 A5 D4 C4 B4 A4 STD MS CE H4 H3 VSS
A6 B6 C6 D6 A7 B7 C7 D7 S0 S1 S2 VDD H1 H2
Q104 2SC2274(E,F) or 2SC2002(L,M)
DA101 4-1914-00010
CONVERTER UNIT
D115
R131 10
C116 470μ/16
PV111
+12V
GND
TO POWER P.C.B.
Q104
ZD103
R117 1K
R118 1K
R119 33K
ZD103 RD6.2L or EQA02-06 or GZA6.2
D115 ERB12-02 or DS135D
R121 100K
R122 1.5K
Q105
R123 47K
R124 10K
C115 1μ
R125 ~ R127 10K×3
D113
PV109
TIMER REC
+9.8V
TIMER LED
STOP SIG
REW SIG
COUNTER
PLAY OUT
TIMER SET
TIMER SET
+9.5V
TO KEY BOAD
Q105 2SC536NP(F,G) or 2SC945(P,K) or 2SC1815(Y,G)
D109 ~ D113, D115 DS442 or 1S2076 × 6

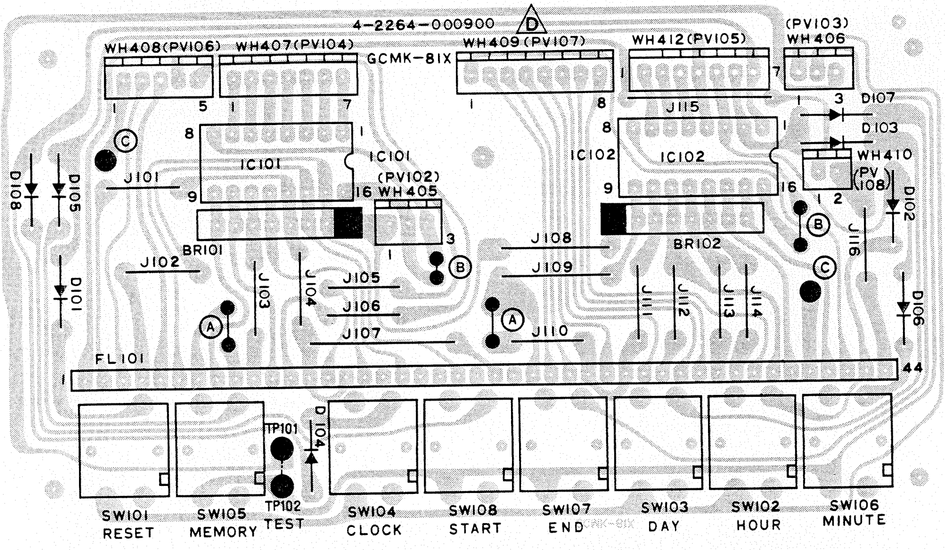
GRID/SEGMENT CONNECTION

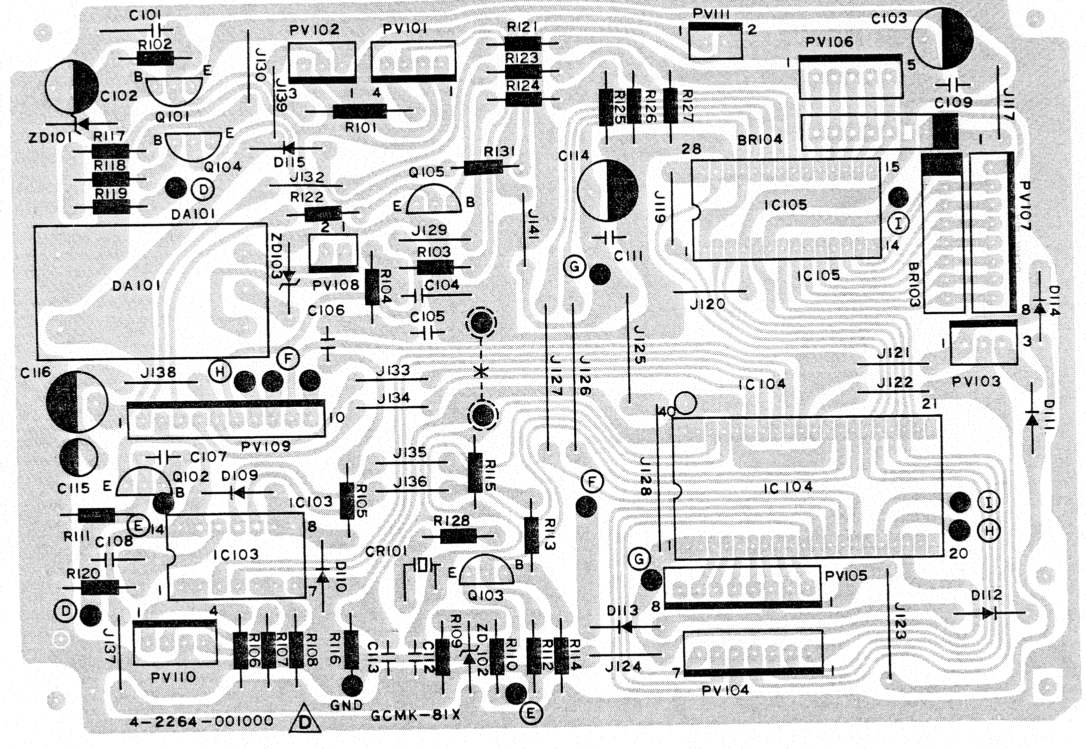
1	F1
2	G17
3	SB4
4	G16
5	SB3
6	G15
7	G14
8	SB5
9	G13
10	SB7
11	SB6
12	SB2
13	G12
14	SB1
15	G12
16	SB8
17	NC
18	G11
19	NC
20	NC
21	G10
22	NC
23	G9
24	NC
25	G8
26	SA7
27	SA6
28	G7
29	SA5
30	G7
31	SA4
32	G6
33	SA3
34	SA2
35	G5
36	G4
37	SA1
38	G3
39	G2
40	SC1
41	G1
42	SA8
43	NP
44	F2

NOTES:

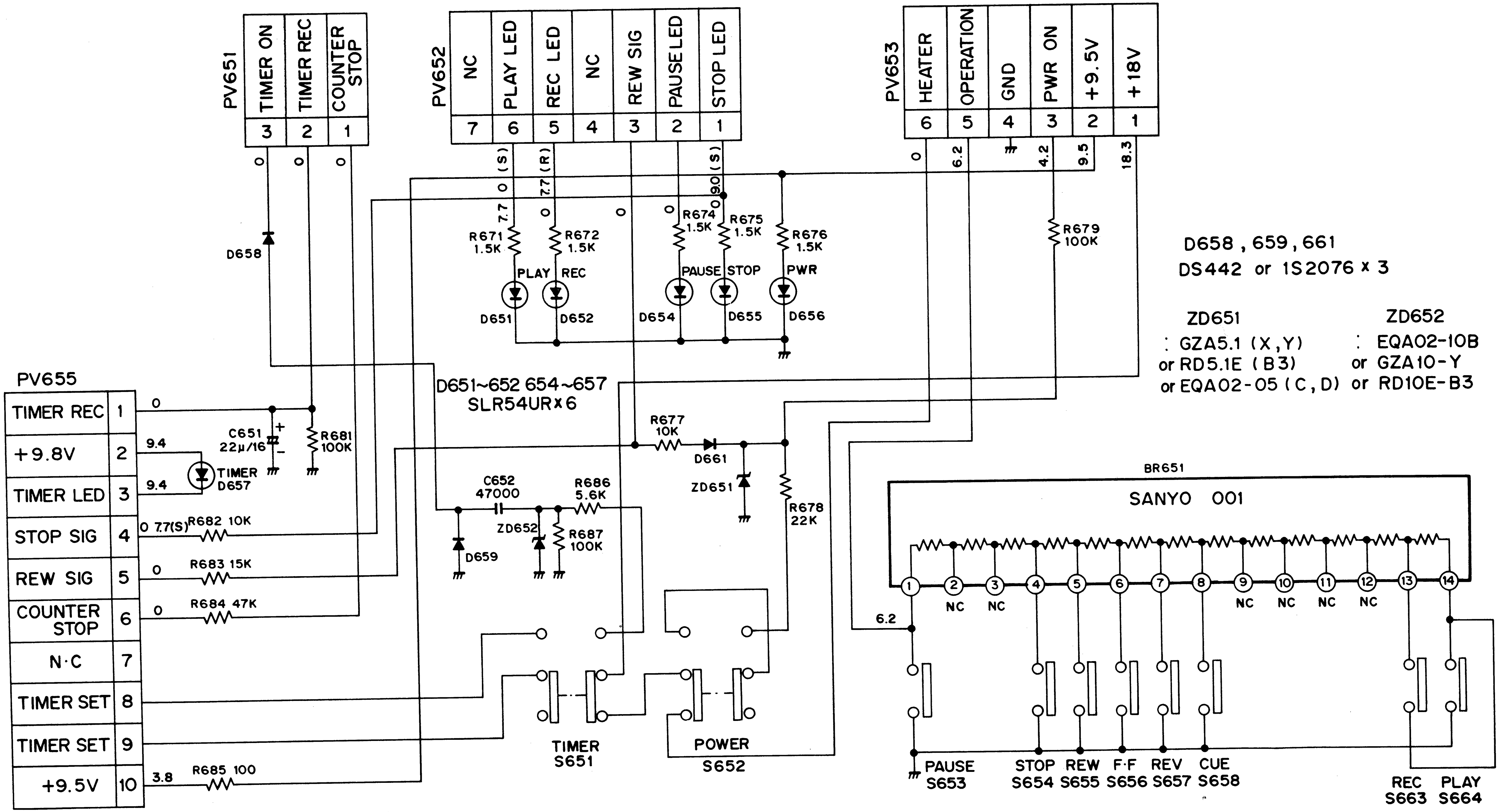
1. All resistance values in "OHMS"unless otherwise noted.(K=1,000 M=1,000,000)
2. All inductance values in "mH"unless otherwise noted.μ=micro henry.

TIMER P.C.B.


4-2264-000900
D
GCMK-81X
WH408(PV106)
WH407(PV104)
WH409(PV107)
WH412(PV105)
(PV103)
WH406
IC101
IC102
(PV102)
WH405
WH410
(PV108)
BR101
BR102
D101
D102
D103
D104
D105
D106
D107
D108
J101
J102
J103
J104
J105
J106
J107
J108
J109
J110
J111
J112
J113
J114
J115
J116
FL101
44
TP101
TP102
A
B
C
SW101
RESET
SW105
MEMORY
TEST
SW104
CLOCK
SW108
START
SW107
END
SW103
DAY
SW102
HOUR
SW106
MINUTE


C101
R102
C102
Q101
ZD101
R117
R118
R119
Q104
DA101
J130
J139
PV102
PV101
R101
D115
J132
R122
Q105
R131
R121
R123
R124
PV111
C103
PV106
C109
J117
R125
R126
R127
BR104
C114
IC105
J119
J141
C111
J129
R103
R104
C104
C105
C106
ZD103
PV108
J120
BR103
PV107
D114
J121
J122
PV103
D111
IC104
J125
J126
J127
J128
C116
J138
J133
J134
PV109
C107
C115
Q102
D109
J135
J136
R105
R115
R111
C108
IC103
R128
CR101
Q103
R113
D110
R120
R106
R107
R108
R116
C113
C112
R109
ZD102
R110
R112
R114
D113
J124
PV105
PV104
D112
J123
J137
PV110
GND
4-2264-001000
D
GCMK-81X
E
F
G
H
I

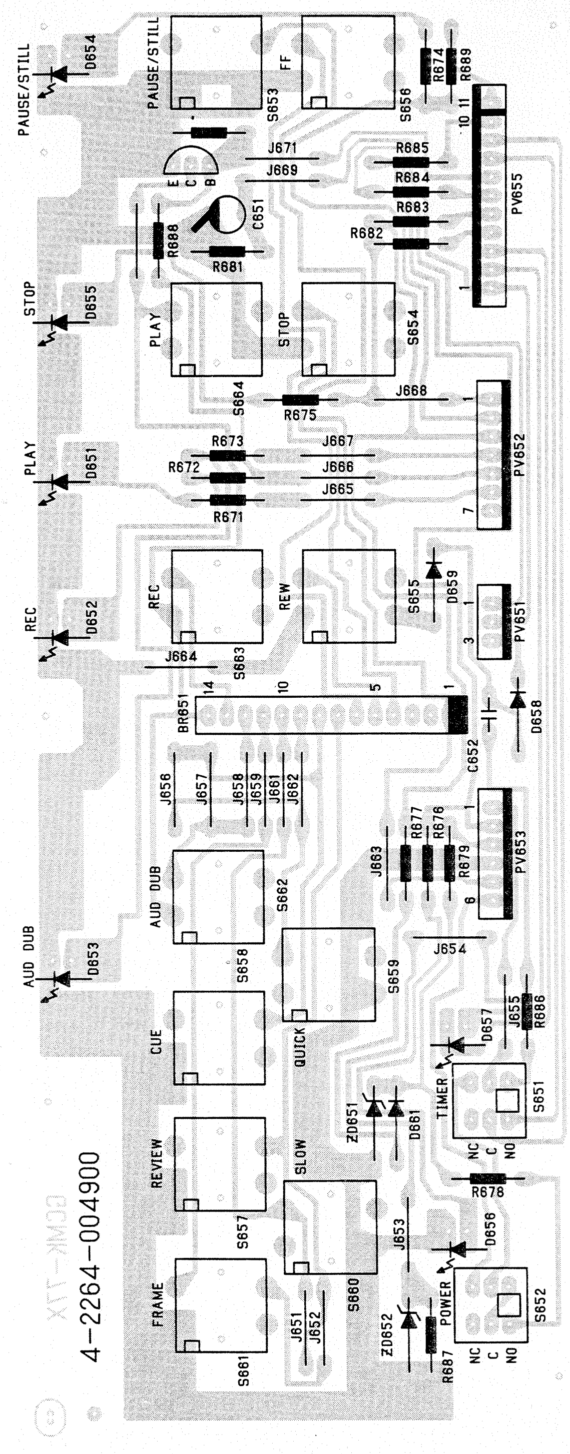
KEY FUNCTION DIAGRAM


PV651
TIMER ON 3
TIMER REC 2
COUNTER STOP 1
PV652
NC 7
PLAY LED 6
REC LED 5
NC 4
REW SIG 3
PAUSE LED 2
STOP LED 1
PV653
HEATER 6
OPERATION 5
GND 4
PWR ON 3
+9.5V 2
+18V 1
D658
R671 1.5K
R672 1.5K
R674 1.5K
R675 1.5K
R676 1.5K
R679 100K
PLAY
REC
PAUSE
STOP
PWR
D651
D652
D654
D655
D656
D658 , 659 , 661
DS442 or 1S2076 x 3
ZD651
: GZA5.1 (X,Y)
or RD5.1E (B3)
or EQA02-05 (C, D)
ZD652
: EQA02-10B
or GZA10-Y
or RD10E-B3
D651~652 654~657
SLR54URx6
PV655
TIMER REC 1
+9.8V 2
TIMER LED 3
STOP SIG 4
REW SIG 5
COUNTER STOP 6
N·C 7
TIMER SET 8
TIMER SET 9
+9.5V 10
C651 22μ/16
R681 100K
TIMER D657
R682 10K
R683 15K
R684 47K
R685 100
C652 47000
ZD652
D659
R686 5.6K
R687 100K
R677 10K
D661
ZD651
R678 22K
TIMER S651
POWER S652
BR651
SANYO 001
NC
PAUSE S653
STOP S654
REW S655
F·F S656
REV S657
CUE S658
REC S663
PLAY S664
7.7 0 (S)
7.7 (R) 0
9.0 (S) 0
6.2
4.2
9.5
18.3
9.4
0 7.7(S)
3.8

NOTES:
All voltage are in PLAY,RECORD and STOP mode unless otherwise noted.
(R)=RECORD mode only
(S)=STOP mode only

NOTES:
1. All resistance values in "OHMS"unless otherwise noted.(K=1,000 M=1,000,000)
2. All inductance values in "mH"unless otherwise noted.μ=micro henry.

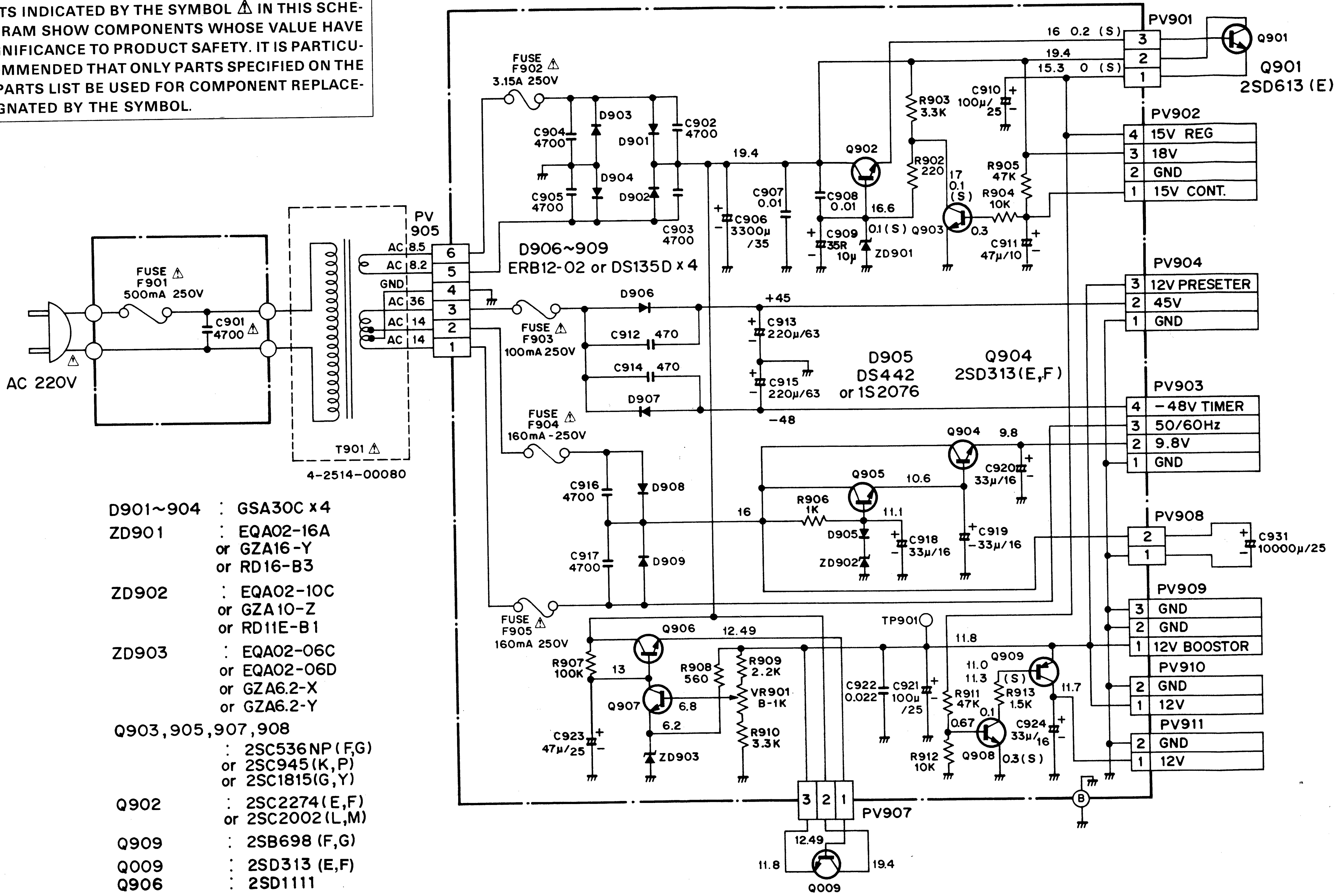
KEY FUNCTION P.C.B.


PAUSE/STILL
D654
PAUSE/STILL
S653
FF
S656
R674
R689
10 11
J671
J669
E C B
C651
R688
R681
R685
R684
R683
R682
PV655
1
STOP
D655
PLAY
STOP
S654
S664
R675
J668
PLAY
D651
R673
R672
R671
J667
J666
J665
PV652
7
REC
D652
REC
REW
S655
D659
1
3
PV651
J664
S663
14
10
5
1
BR651
C652
D658
J656
J657
J658
J659
J661
J662
J663
R677
R676
R679
1
6
PV653
AUD DUB
S662
AUD DUB
D653
S658
S659
J654
CUE
QUICK
J655
R686
D657
TIMER
S651
ZD651
D661
NC
C
NO
REVIEW
SLOW
S657
R678
J653
D656
FRAME
S661
J651
J652
S660
ZD652
R687
POWER
S652
NC
C
NO
4-2264-004900

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A UNIT. COMPONENTS INDICATED BY THE SYMBOL ⚠ IN THIS SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE ATTACHED PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY THE SYMBOL.

POWER CIRCUIT DIAGRAM


AC 220V
⚠
FUSE ⚠
F901
500mA 250V
C901
4700 ⚠
T901 ⚠
4-2514-00080
PV
905
AC 8.5
AC 8.2
GND
AC 36
AC 14
AC 14
6
5
4
3
2
1
FUSE
F902 ⚠
3.15A 250V
C904
4700
C905
4700
D903
D904
D901
D902
C902
4700
C903
4700
D906~909
ERB12-02 or DS135D x 4
19.4
C906
3300μ
/35
C907
0.01
C908
0.01
C909
35R
10μ
Q902
16.6
0.1(S)
ZD901
R903
3.3K
R902
220
17
0.1
(S)
Q903
0.3
C910
100μ/
25
R905
47K
R904
10K
C911
47μ/10
16 0.2 (S)
19.4
15.3 0 (S)
PV901
3
2
1
Q901
Q901
2SD613(E)
PV902
4 15V REG
3 18V
2 GND
1 15V CONT.
D906
+45
FUSE ⚠
F903
100mA 250V
C912 470
C914 470
D907
C913
220μ/63
C915
220μ/63
-48
D905
DS442
or 1S2076
Q904
2SD313(E,F)
PV904
3 12V PRESETER
2 45V
1 GND
PV903
4 -48V TIMER
3 50/60Hz
2 9.8V
1 GND
FUSE ⚠
F904
160mA-250V
C916
4700
C917
4700
D908
D909
16
Q904
9.8
C920
33μ/16
Q905
10.6
R906
1K
11.1
D905
ZD902
C918
33μ/16
C919
33μ/16
PV908
2
1
C931
10000μ/25
FUSE
F905 ⚠
160mA 250V
Q906
12.49
R907
100K
13
Q907
6.8
6.2
ZD903
C923
47μ/25
R908
560
R909
2.2K
VR901
B-1K
R910
3.3K
TP901
11.8
C922
0.022
C921
100μ
/25
R911
47K
R912
10K
0.67
Q909
11.0
11.3
(S)
R913
1.5K
0.1
Q908
0.3(S)
C924
33μ/16
11.7
PV909
3 GND
2 GND
1 12V BOOSTOR
PV910
2 GND
1 12V
PV911
2 GND
1 12V
B
3 2 1
PV907
12.49
11.8
19.4
Q009

D901~904 : GSA30C x4

ZD901 : EQA02-16A
or GZA16-Y
or RD16-B3

ZD902 : EQA02-10C
or GZA10-Z
or RD11E-B1

ZD903 : EQA02-06C
or EQA02-06D
or GZA6.2-X
or GZA6.2-Y

Q903,905,907,908
: 2SC536NP(F,G)
or 2SC945(K,P)
or 2SC1815(G,Y)

Q902 : 2SC2274(E,F)
or 2SC2002(L,M)

Q909 : 2SB698 (F,G)

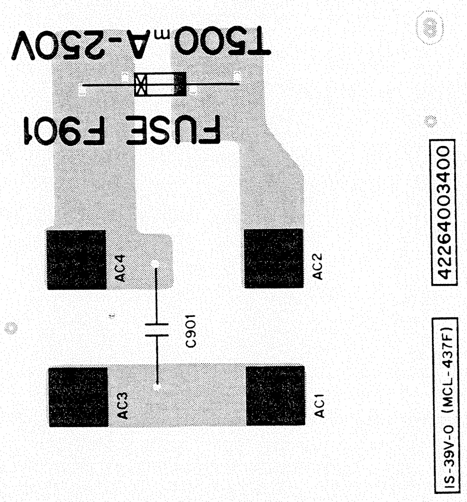
Q009 : 2SD313 (E,F)

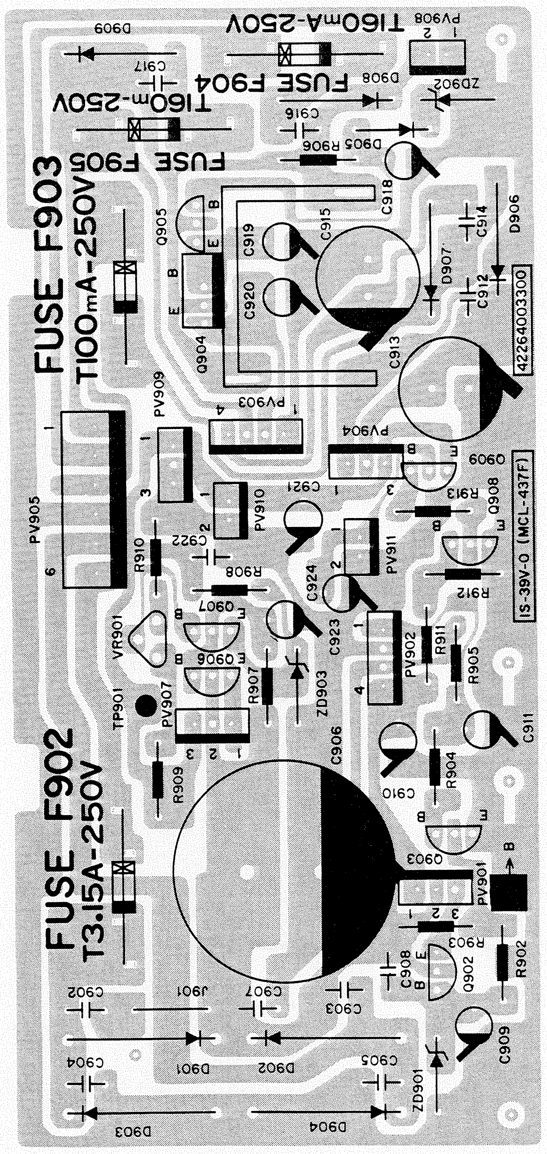
Q906 : 2SD1111

NOTES:
All voltage are in PLAY and RECORD mode unless otherwise noted.
(S)=STOP mode only

NOTES:
1. All resistance values in "OHMS" unless otherwise noted.(K=1,000 M=1,000,000)
2. All inductance values in "mH" unless otherwise noted.μ=micro henry.

POWER CIRCUIT P.C.B.


FUSE F901
T500mA-250V
AC1
AC2
AC3
AC4
C901
42264003400
IS-39V-O (MCL-437F)


FUSE F902
T3.15A-250V
FUSE F903
T100mA-250V
FUSE F904
T160mA-250V
FUSE F905
T160m-250V
PV901
PV902
PV903
PV904
PV905
PV906
PV907
PV908
PV909
PV910
PV911
Q902
Q903
Q904
Q905
Q906
Q907
Q908
Q909
Q910
C902
C903
C904
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C916
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C918
C919
C920
C921
C922
C923
C924
D901
D902
D903
D904
D905
D906
D907
D908
D909
ZD901
ZD902
ZD903
R902
R903
R904
R905
R906
R907
R908
R909
R910
R911
R912
R913
VR901
TP901
J901
E
B
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